1 Cairo Governorate

Manor House International Schools

Answer	the	foli	owi	ng	quest	tions	:
--------	-----	------	-----	----	-------	-------	---

Complete the following statements:	
The fluorescent lamp contains the inert gas and a little amo	unt of
If the effort force is larger than the resistance force, is longer the	er than
<ol><li>The eclipse doesn't harm the eye, while eclipse ca harm to eye.</li></ol>	uses
4. Electric lamps convert energy into energy.	
5. The fixed point where the rigid bar rotates on is called	
6. The rotates around the Earth in shape orbit.	
7. Levers were first described by a scientist whose name is	
Write the scientific term :	
The method of connecting electric lamps and machines at home.  (	)
2. A phenomenon occurs when a part of the Moon lies in umbra. (	)
3. The type of levers where the effort force is always smaller than	
	)
[A] Give reasons for :	
<ol> <li>We can't see the Sun during the solar eclipse.</li> </ol>	
	•••••
***************************************	
<ol><li>Water pump is a first class lever.</li></ol>	
•	
2. We must not touch any electric machine with wet hand	
<ol><li>We must not touch any electric machine with wet hand.</li></ol>	
***************************************	
	85

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمعطود

#### Final Examinations

Francisco Contractor			
Cairo	Carrie		
 Lairo	COMP	difeis.	11:
Cullo	-		

2	Cairo Governorate Potriorchal C	College
Answ	er the following questions :	
1. [A]	Complete the following statements :	
	The values of effort force and resistance force depend or and	n
	2. Increasing the temperature of the electric machines may	/ cause
	3. The inner surface of the tube of the fluorescent lamp is co	overed with
	4. Theleads to destroying the tissues of the body.	
	5. The lever saves effort if the arm is shorter than	arm.
	<ol><li>phenomenon always occurs when the Moon his during its movement in front of it.</li></ol>	des the Sunlight
[B]	What happens ? Why ?	
	A piece of glass is inserted in a closed simple electric circulation.	it.
	The electric fires are put out by water.	
2. [A	Write the scientific term :	
	<ol> <li>One of the dangers of electricity occurs as a result of the electric current through the human body.</li> </ol>	e passage of the
	<ol><li>It is an eclipse that occurs when a part of the Moon enter of the Earth.</li></ol>	ers the shadow area
	3. Falling a person from a ladder as a result of electric sho	ock. ()
	<ol> <li>The area appears between the lighted area and the real sha can see a part of the light source if we stand in this area.</li> </ol>	adow area and we
[B	Mention the function of :	
	1. Filament.	
	<ol><li>The battery in the electric circuit.</li></ol>	

87)

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمسايق



F

50

12+2

9,

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[C] Mention 2 difference parallel.			ind connection in
***************************************			
***************************************	***************************************		
***************************************			
	and the second second		
[A] Choose the correct			
Plugging more that	n one machine to d		
a. electric shock.		b. electric fire	
c. overload.		d. overload ar	nd electric fire.
<ol><li>The lunar eclipse of</li></ol>	occurs in the	phase.	
a. new Moon	b. crescent	c. full Moon	d. first quadratur
3. The electric shock	may cause		
a. electric fire.		b. electric ove	rload.
c. electric burn.		d. no correct a	answer.
4. When the Moon loo	oks slightly faint, it	indicates	
a. total lunar eclips	se.	b. partial lunar	r eclipse.
c. partial solar eclip	ose.	d. no eclipse.	
[B] What is meant by	2		
Electric circuit :			
1. Lieotrio circuit .			
2. Total lunar eclipse			
[C] The exerted force of	a lever equals 20	O N and the reci	etanco unive
is 1000 N. If the arm	The second secon		
resistance and what			ind dilli or

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

1. The electric	lamp converts electric energy into kinetic energy.	(
	connect more than one lamp in series, the light intensity by increasing their numbers.	(
3. The crowba	ar is considered from the third class lever but it saves effort.	(
4. The duration	on of solar eclipse is less than the duration of lunar eclipse.	(
1. Don't look	s for: directly at the Sun with naked eye during the solar eclipse.	
2. In second	class levers, the effort force is always less than resistance	for
C] Mention 4 pr		
	recautions on dealing with electricity.	
ditional questio	recautions on dealing with electricity.	
ditional questional Complete the	recautions on dealing with electricity.  Ins  ine following statements :	
A] Complete th	recautions on dealing with electricity.  Ins process to make their own food.	
A] Complete the	recautions on dealing with electricity.  ne following statements:  process to make their own food.  consists of root system and	
A] Complete the 1. Plants do 2. Any plant	recautions on dealing with electricity.  ne following statements:  process to make their own food.  consists of root system and  ons if ?	
A] Complete the 1. Plants do 2. Any plant (B) What happe	recautions on dealing with electricity.  ne following statements:  process to make their own food.  consists of root system and	

المحلصر علوم لنات (Notebook) / ٢٠٠/ تيرم ١ (م: ١٢)

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والصوي

# Cairo Governorate

Basateen & Dar Al Salam Educational Administration

#### Answer the following questions:

# . [A] Choose the correct answer :

- 1. The phenomenon of the lunar eclipse occurs on the ..... day of the lunar month.
  - a. 10th

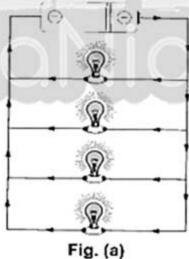
- b. 14th
- C. 25th
- d. 28th
- 2. Lever that has the fulcrum between the force and the resistance .....
  - wheelbarrow.
- b. seesaw.
- c. nutcracker.
- d. tweezers.
- 3. Tungsten is preferred to use in electric lamps because of ......
  - a. its low melting point.

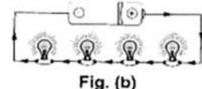
b. its high melting point.

its bad conductivity.

- d. its high boiling point.
- 4. In second class lever if the distance between resistance and fulcrum 15 cm ,so the distance between effort force and fulcrum must be equal .....
  - a. 5 cm.
- b. 20 cm.
- c. 15 cm.
- d. 10 cm.

# [B] From the opposite figures (a) and (b) answer the following questions:





- What is the way of connection in each circuit?
  - a. ..... b. ......
- 2. What happens when the light bulb number (2) in each circuit burns out ?

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى



## **Final Examinations**

2. The electric fires	are put out by water.	
. [A] Write the scientific	c term :	
1. Type of levers th	at always doesn't save effort.	(
	rent through the human body.	(
<ol><li>It occurs when the of the Earth.</li></ol>	ne whole Moon enters the semi - shaded are	a (
4. A tool that chang	es electric energy into light energy.	(
10.01 111 21010 01 5	alance or nor and why ?	
	lowing figure and answer the following:	
[C] (1) Look at the fol	lowing figure and answer the following:	<b>4</b>
(2) When whole Mo	lowing figure and answer the following :	••••••
(2) When whole Mo	lowing figure and answer the following:  (a)  (b)  (c)  (c)  (d)  (d)  (d)  (e)  (e)  (e)  (e)  (f)  (f)  (f)  (f	••••••

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والصيفة

[B] Compare between the solar and lunar eclipse. (two points only).

Lunar eclipse
•••••
••••••
***************************************

[C] These people are wearing a special type of glasses to observe an astronomical phenomenon.

- a. What is the name of this phenomenon? .....
- Mention the reason for using these glasses to observe this phenomenon.

4. [A] Correct the following sentences without changing the underlined words:

- Glass tube in the light bulb contains mercury vapour.
- 2. The type of levers which never save effort is the 2<sup>nd</sup> class levers.

.....

- Copper and iron are electric insulators.
- 4. The coal holder is used in increasing distance.

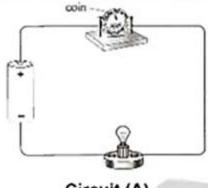
[B] Give reasons for :

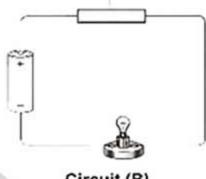
- Solar and lunar eclipse can be predicted.
- 2. The heater shouldn't be placed in a touching position of textiles and carpets. .....

-----

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

## [C] Look at the opposite figures, then answer the following:





Circuit (A)

Circuit (B)

Which circuit becomes closed when the wire is connected to the light builds?  Why?

#### Additional questions

- [A] Put (√) sign in front of correct statements and (x) sign in front of false statements:
  - 1. Osmosis is a biological process in which the plant loses water in the form of water vapour.
  - The outermost layer of the plant's root is cortex.
- [B] Give reasons for the following:
  - Plants make photosynthesis process.
  - The two guard cells change their shapes from time to time.

<	4	(
1	-	

Cairo Governorate

East Nasr City Educational Directorate

Answer the following questions:

- . Write the scientific term :
  - The fixed point of a rigid bar.
  - Levers that sometimes conserve the effort.

(-----) (-----)

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

والمطالعات الأنطاط الأنطاط المطاع المطاع المطاع

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

2+2.

## Final Examinations

1 Sagraw is the 1st of			
1. Seesaw is the 1 C	ass lever and wheel	lbarrow is 2 <sup>nd</sup> cla	ass lever.
•••••••	•••••••••••••		•••••••••••••••••••••••••
2. Water is not used to	out out electric fire	۹	•••••••••••••••••
2. 114(0) 10 110( 0000 10		······	·····
ditional questions			
[A] Complete the followi	ng statements :		
1. Any plant consists of	of root system and -		
2. Plants lose water in		er vapour through	n proces
[B] Write the scientific to			•
Openings through warming			piration process
i. Openings unough v	mon the plant unde	goes the trains	L
2. The root layer, when	re the root bairs evte	and	
2. The root byer, when	to the root mans call		
Cairo Governo	rate	od -El-Force Di	
Cairo doverno	A 1 1 37	Saint Mary's S	chool
		Saint Mary's S	ochool
swer the following quest	ions :	Saint Mary's S	ochool
swer the following quest A] Choose the right ans	ions:	SOY	ochool
A] Choose the right ans 1. Glass bulb in electric	ions:	SOY	ed
swer the following quest A] Choose the right ans	ions:	SOY	d, nitrogen
A] Choose the right ans 1. Glass bulb in electric	wer: c lamp contains b. oxygen e takes place when	gas.	d. nitrogen
A] Choose the right ans 1. Glass bulb in electrica, hydrogen 2. The eclipse	wer: c lamp contains b. oxygen e takes place when	gas. c. argon a part of the Mod	d. nitrogen
A) Choose the right ans  1. Glass bulb in electrica, hydrogen  2. The ———————————————————————————————————	wer: c lamp contains b. oxygen e takes place when a th. b. partial lunar	c, argon a part of the Mod	d. nitrogen
A) Choose the right ans 1. Glass bulb in electrical hydrogen 2. The electrical shadow area of Earland at total lunar	wer: c lamp contains b. oxygen e takes place when a th. b. partial lunar	c, argon a part of the Mod	d. nitrogen on lies in the d. partial solar
A) Choose the right ans 1. Glass bulb in electrical hydrogen 2. The eclipse shadow area of Ear a. total lunar 3. From the second class	wer: c lamp contains b. oxygen e takes place when a th. b. partial lunar ass lever is b. crowbar.	c. argon a part of the Mod c. total solar c. nutcracker.	d. nitrogen on lies in the d. partial solar
A) Choose the right ans 1. Glass bulb in electrical hydrogen 2. The eclipse shadow area of Ear a. total lunar 3. From the second class a. sweet holder.	wer: c lamp contains b. oxygen e takes place when a th. b. partial lunar ass lever is b. crowbar.	c. argon c. total solar c. nutcracker. e up of	d. nitrogen on lies in the d. partial solar
A] Choose the right ans 1. Glass bulb in electrical hydrogen 2. The eclipse shadow area of Ear all total lunar 3. From the second class sweet holder. 4. The filament of the electrical sweet of the e	wer: c lamp contains b. oxygen e takes place when a th. b. partial lunar ass lever is b. crowbar. electric lamp is mad b. tungsten.	c. argon a part of the Mod c. total solar c. nutcracker. e up of c. copper.	d. nitrogen on lies in the d. partial solar d. seesaw.
A] Choose the right ans 1. Glass bulb in electrical hydrogen 2. The eclipse shadow area of Ear all total lunar 3. From the second class all sweet holder. 4. The filament of the eal iron.	wer: c lamp contains b. oxygen e takes place when a th. b. partial lunar ass lever is b. crowbar. electric lamp is mad b. tungsten.	c. argon a part of the Mod c. total solar c. nutcracker. e up of c. copper.	d. nitrogen on lies in the d. partial solar d. seesaw.
A) Choose the right ans  1. Glass bulb in electrical hydrogen  2. The elipse shadow area of Earlant total lunar  3. From the second class sweet holder.  4. The filament of the elapino.  5. elipse shadow area of Earlant total lunar	b. crowbar. electric lamp is mad b. tungsten. oint that a rigid bar is	c. argon a part of the Mod c. total solar c. nutcracker. e up of c. copper. rotates on. c. Fulcrum	d. nitrogen on lies in the d. partial solar d. seesaw. d. aluminium. d. Lever
A) Choose the right ans  1. Glass bulb in electrical hydrogen  2. The elipse shadow area of Ear all total lunar  3. From the second class all sweet holder.  4. The filament of the elal iron.  5. elipse all right ans  a. hydrogen  a. total lunar  3. From the second class all sweet holder.  4. The filament of the elal iron.  5. elipse all right ans  a. total lunar  a. sweet holder.  4. The filament of the elal iron.	b. crowbar. electric lamp is mad b. tungsten. oint that a rigid bar is	c. argon a part of the Mod c. total solar c. nutcracker. e up of c. copper. rotates on. c. Fulcrum	d. nitrogen on lies in the d. partial solar d. seesaw. d. aluminium. d. Lever

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخ

## Final Examinations

3. [A] Complete the following statements :	
There is a conservation of effort for the first class levers if the larger than	is
2. The manual broom is an example of the levers.	
3. You can not put out the electric fire with water because water is	
4. The lunar eclipse may last for more than	
5. Thelever may have effort arm equals the resistance a	rm.
Contract to the second	
(B) Label this figure : ①	
3	3)
(a)	
I. The lunar eclipse can be easily seen from the surface of the Ea	off by
the naked eye.	( )
2. The scissors is a second class lever.	( )
3. Indirect injuries of electricity result from falling from top of a lade	der
due to an electric shock.	( )
<ol><li>Parallel connection has many branching routes.</li></ol>	( )
5. The Moon revolves around the Earth in an oval shape orbit.	( )
6. The rate of occurrence of lunar eclipse is two eclipses per year.	( )
[B] Define:	
Lever.	
***************************************	

العاصد علوم لغات (Notebook) / ٢٠٠١ تيم ١ (م: ١٢)

97

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمسلم

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

# 2. [A] Match:

(A)	(B)
1. Third class lever	a. levers that always save the effort.
2. Second class lever	b. levers that never save the effort.
3. Lever	<ul> <li>c. levers that sometimes save the effort.</li> </ul>
4. First class lever	<ul> <li>d. a rigid bar rotates around a fixed point and is affected by a force and a resistance.</li> </ul>

1	2	3	4
length of its	force of the first class arm is 20 cm and is Find the value of the	affected by a resista	nce with a value of
Write the scienti	fic term :		
1. The fixed point	of a rigid bar on which	h it rotates.	()
2. Levers that have	ve the effort force bety	veen the resistance a	nd the fulcrum.
			()
3. The way where	the bulbs are connect	ed by branching route:	s and the lighting of
the lamps isn't	affected with increase	in their numbers.	()
4. One of the dang	gers of the electricity o	ccurs as a result of the	passage of the
electric current	through the human bo	dy.	()
5. Occurs when pa	art of the Moon enters	the shadow area only.	()
	e Moon hide all sunlig		
	-		()
[A] Give reasons	for		

## 4. [A] Give reasons for

- The filament of the light bulb is made of tungsten.
- Not placing flammable materials too close to the electric machine which produces heat energy.
- No annular lunar eclipse is formed like the annular solar eclipse.

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمعوية

100

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخر

	curs as a result of passing arough the human body.	(
	AND THE STATE OF T	
3. The electric lamp is to light energy.	used to change kinetic energ	(
. [A] Write the scientific term	m for each of the following	:
1. The way where the bu	albs are connected by branch	ing routes. (
2. Materials that allow el	ectricity to pass through.	<b>(</b>
3. A rigid bar that rotate	around fixed point and has el	fort force
and a resistance force	9.	(
4. It is a closed and cont	tinuous path through which th	e electric current passes
		<b>(</b>
[B] Give a reason for :		
The filament of electric la	amp is made of tungsten.	
· · · · · · · · · · · · · · · · · · ·		
[A] Choose the correct an	iswer:	
1. All the following are b	ad conductors of electricity e	xcept
a. copper.	b. plastic.	c. rubber.
2. The lunar eclipse occ	curs in the of the luna	ar month.
a. end	b. middle	c. beginning
3. All the following are fr	rom the importance of levers	except
a. increasing force.		c. increasing speed.
	ever that always save effort.	
a. First	b. Second	c. Third
	m and the registance arm i	2 cm if the recistance
IDI If the favor own in F or		
[B] If the force arm is 5 cr		5 2 cm, ii the resistance
[B] If the force arm is 5 cr force is 10 N. Calculat		s z cm, n the resistance
force is 10 N. Calculat		

101)

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخر

## Final Examinations

. [A] Write the scientific term :		
1. Substances that don't all	ow electricity to pass.	()
2. One of the dangers of ele		
3. A fixed point which the ba	( )	
<ol> <li>The lunar eclipse in which area of the Earth.</li> </ol>		e umbra ()
[B] Calculate the length of the value of the froce is 100 resistance arm is 20 cm.	ne force arm in a lever if y N, the resistance is 200 N	ou know that the , and the length of the
3. [A] Choose the correct answ		
1is considered fr	b. Seesaw	c. Bottle opener
a. Fishing hook  2. The inventor of the elect		
a. Daniel Rutherford.	b. Edison.	c. Newton.
3. From the electric insular	tor substances is	
a, rubber.	b. iron bar.	c. aluminium bar.
4. When the whole Moon of	enters the semi-shaded are	a of the Earth
occurs.		
a. solar eclipse	b. lunar eclipse	c. no eclipse
[B] Give reasons for :		
1. Water is not used in pu	tting out electric fires.	
2. Second class levers at	ways save effort.	
2. 0000114 01000 101010		
***************************************		

103)

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والصيفة

<b>b</b> /	
¥	.5
0	

2+2 9

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2. Looking at the	lunar eclipse cause	es great harms for ey	yes.	. (
***************************************	•••••••••••••••••••••••••••••••	mount of mercury v		
gas.			apour and argor	(
4. The human boo	dy is a bad conduct	or of electricity.	***************************************	(
[B] What happens v	vhen ?		*************************	
		heric air from inside		
1. The electric lar	mp contains atmosp	the force arm in the		
The electric lar     The resistance	arm is longer than			
The resistance  2. The resistance	arm is longer than	the force arm in the		
The resistance     The resistance  ditional questions  [A] Choose the corre	arm is longer than	the force arm in the	lever.	
The resistance  2. The resistance  ditional questions  [A] Choose the corre	arm is longer than	the force arm in the	lever.	esi
1. The electric lar  2. The resistance  ditional questions  [A] Choose the corre  1. The plant make  a. respiration	arm is longer than  ect answer: es its own food through, digestion	ugh process	lever.	esi
1. The electric lar  2. The resistance  ditional questions  [A] Choose the corre  1. The plant make  a. respiration	arm is longer than  ect answer: es its own food through, digestion	the force arm in the	lever.	esi
2. The resistance  ditional questions  [A] Choose the corre  1. The plant make  a. respiration  2. The stoma in a	arm is longer than  ect answer: es its own food through the digestion plant is surrounded b. three	ugh process c. sensation by guard o	s. d. photosynth	esi

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمسمود

F

AIEXBITUTIO GOVERNO	9	Alexandria Governorate
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El-Agamy Educational Directorate

Answer t	he i	oll	OW	ng	ques	tions	:
----------	------	-----	----	----	------	-------	---

1		Comp	lete	the	following	ng sta	tements	:
---	--	------	------	-----	-----------	--------	---------	---

- 1. Crowbar is considered from levers of ...... class, while the manual broom is considered from levers of ..... class.
- 2. The filament of the electric lamp is made of ..... because it has a high .....
- 3. Harms of the electric shock depends on ..... and ...... and

## 2. [A] What happens when ...?

- The whole Moon enters the penumbra area of the Earth.
- The glass bulb of the light bulb is filled with air instead of argon gas.

#### [B] Choose the correct answer:

- 1. All of the following are from the importance of the levers except ......
  - b. increasing distance. a. increasing force.
  - d. saving effort. c. decreasing the speed.
- 2. From the materials which are the electric insulators ........
  - b. rubber. a. iron.
    - d. lead. c. copper.
- 3. From the levers that are used to avoid danger is .....
  - b. scissors. a. coal holder.
- c. seesaw.
- d. wheelbarrow.
- 4. The astronomical phenomenon that occurs to the Moon when Earth comes between the Sun and the Moon is .....
  - annular solar eclipse.

b. total solar eclipse.

c. lunar eclipse.

d. solar eclipse.

## 3. [A] Give reasons for each of the following:

- The nutcracker is considered a second class lever. ..... ......
- The glass bulb of the light bulb is filled with inert argon gas.

المحاصر على لدات (Notebook) / ٢ ب/ نيرو ٢ (م : ١١)

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخر

المطالب المراج المراج المراج المحال المحال

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

والمطالعات المطالع الم

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40/	Alayandria	Governorate
	Alexaliging	Ou ver morace
	A LEAN COLLEGE	

Alexandria Governorate	East Zone Educational Directorate
Answer the following questions :	
1. [A] Complete the following sentences	:
The distance between the fulcrum distance between the resistance a	and the force is called, while the
2. Electric lamps convert en	ergy into energy.
<ol><li>The solar eclipse occurs when straight line.</li></ol>	, and the Earth are on a
<ol> <li>Iron is considered as conductor of electricity.</li> </ol>	luctor of electricity, while wood is
[B] What happens if ?	
1. A part of the Moon enters the sha	dow area of the Earth.
	are connected in series.
2. [A] Write the scientific term for each	of the following:
The fixed point of a rigid bar.	()
the electric current through the hi	
3. An inert gas that is found in the gl	ass bulb of the electric lamp. ()
of its arm is 20 cm. and is affected to	lever equals 500 Newton and the length by a resistance with a value of 20 Newton.
Find the value of the arm of the re	esistance.
	······································
3 rai Dut ( () in front of the correct states	ments and (X) in front of the wrong ones :

1. Water is used to put on electric mes.	, and a second s
3. The second class lovers save effort	•

- 3. The effort force is measured in centimetre or metre.
- Crowbar is an example of the first class levers.

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

स्थान्त्रका क्यान्या क्रम्या

[B] Give reason	for each	of the	following	
-----------------	----------	--------	-----------	--

i. Doctors warn from the dir	ect observation of the Sun during solar eclipse.
***************************************	

2. The Moon is coloured in red at the start of the total lunar eclipse.

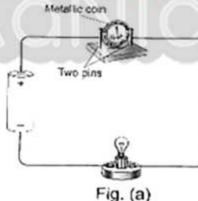
# 4. [A] Choose the correct answer:

- 1. Which of the following levers is used to avoid dangers ......
  - a. coal holder.
- b. scissors.
- c. manual broom.
- 2. The duration of the solar eclipse is ..... than the duration of the lunar eclipse.
  - a. greater

b. less

- c. equal
- 3. All of the following levers don't save effort except .....
  - a. ice holder.
- b. hockey bat.
- c. nutcracker.
- 4. When the electric lamp connected in parallel with others in the electric circuit, the light intensity .....
  - a. decreases.
- b. increases.
- c. doesn't change.

# [B] Look at the following figures, then answer:



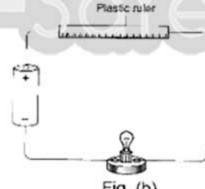


Fig. (b)

In which figure the light bulb will light up when the electric wires connected to the bulb? And why?

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

# Final Examinations

[A] What happens if ?		
The two guard cells	s of a stoma cannot char	nge their shapes.
2. A plant is kept in da	ark for a long period of ti	me.
statements:		and (x) sign in front of false
	n the form of water vapo the plant stem through the	
11 Alexandria Gove	rnorate El-Gom	ok Educational Directorate
nswer the following ques	stions :	
[A] Complete the follow	ing statements :	
	nen Earth, Moon and Sur	n are nearly on one straight line
2. Iron is considered electric	as an electric, v	while wood is considered as an
	and wheelbarrow are levels is levers of the	
[B] Problem :		
The exerted force of its arm is 20 cm and Find the resistance a	is affected by a resistant arm.	als 500 Newton and the length on the with a value of 200 Newton.
The exerted force of its arm is 20 cm and Find the resistance at the law of lever =	is affected by a resistant arm.	ce with a value of 200 Newton.
The exerted force of its arm is 20 cm and Find the resistance at The law of lever =	is affected by a resistant arm. × = =	ce with a value of 200 Newton.
The exerted force of its arm is 20 cm and Find the resistance at The law of lever =	is affected by a resistant arm.	ce with a value of 200 Newton.
The exerted force of its arm is 20 cm and Find the resistance at The law of lever =	is affected by a resistant arm. × =	ce with a value of 200 Newton.
The exerted force of its arm is 20 cm and Find the resistance at The law of lever =	t answer: wing is found in the fluor	ce with a value of 200 Newton.

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

स्थान्त्रिया क्ष्यान्या क्ष्या

2. Force arm is a	sometimes equal to resistance a	rm in class lever.			
a. first	b. second	c. third			
<ol><li>Operating mo</li></ol>	re than one machine from one s	ocket causes an			
a. electric fire		c. electric shock.			
<ol> <li>Lunar eclipse</li> </ol>	can be seen only in of	lunar month.			
a, the middle	b. at the beginning	c. at the end			
[B] Give reasons for	r:				
1. The second cl	ass levers have mechanical ben	efits and conserve efforts.			
2 You must not l	look dispally at the Constant				
Z. You must not i	look directly at the Sun during so	olar eclipse.			
3. [A] Write scientific	term:				
The way where lighting of lamp	the bulbs are connected by braces.	nching routes			
2. The fixed point	of a rigid bar rotates on.	()			
3. One of electric	3. One of electric dangers that causing damage of body tissues. (				
	who invented the lever.	()			
[B] What happens v	when ?				
	lies in the Earth's umbra. (shade	ow) ( ) (			
***************************************					
<ol><li>A man touches</li></ol>	an uncovered wire carrying elec-	ctric current.			
***************************************					
4. The figure represer  [A] Label the figure:	nts the light bulb:	0			
<b>①</b> ···············					
②		2 + TT7 )-3			
③		@-\ \\ /			
<b>④</b>					
⑤		-9			
[B] The type of numb	er ⑤ is	•			
/ -					
1440					

110

50

W2+2.

9,

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمسوي



## Final Examinations

Additional questions	
[A] Complete the following statements:  1. Plants lose water in the form of the water vapour through.	process.
2. Any plant consists of root system and	ood. ( )
12 Alexandria Governorate Middle Zone Educational	Directorate
nswer the following questions :	
[A] Complete the following statements :	
The type of lever always conserves effort, while the state of the state	ne type
always doesn't conserve effort.	урс
2. Some levers make the tasks perform more easily by avoid	ing
3. Water pump is a class lever, while is a th	
4. From the types of electric lamps are and and	
5. The phenomenon occurs when the hides part of the Earth.	s sunlight from a
[B] What happens when ?	
A spark resulting from the electric fires touches any part of a h	numan body.
[A] Write the scientific term :	55 52
<ol> <li>A way of electric connection, in which light intensity of bulb the increase in their number.</li> </ol>	s decreases by
<ol><li>A part of light bulb that connects the base with the filament of the lamp.</li></ol>	t (
<ol><li>One of the dangers of electricity causes damage to the body tissues.</li></ol>	(

# [B] Compare between solar and lunar eclipse according to the following :

Points of comparing	Solar eclipse	Lunar eclipse
The body that hides sunlight:	***************************************	
Occurrence time :	***************************************	
Duration time :		

J. Choose	the correct	answer:
-----------	-------------	---------

1. The force that is ex	erted to equilibrate	the resistance is cal	led
a. fulcrum.	b, effort.	c. friction.	d. fulcrum & effort.
2is/are used	d to pick up very sm	all objects.	
a. Coal holder	b. Tweezers	c. Manual broom	d. Seesaw
3. The effort force and	the resistance force	e are measured in -	
a. Newton.	b. Hertz.	c. metre.	d. cubic centimetre.
4. Which of the follow bulb ?	ing is found in fluore	escent lamp and is n	ot found in electric
a. Neon.	b. Argon.	c. Mercury.	d. Water vapour.
5. Connecting more that	an one electric device	e in the same socket	leads to
a. electric shock.		b, overload.	
c. electric burn.		d. electric shock	& burn.
6. The Moon seems re	d when it is totally in	the of the E	arth.
a. umbra area		b. penumbra area	a
c. extension of the	cone shadow	d. no correct ans	wer

# 4. [A] Calculate the following:

1.	Find the length of resistance arm if you know that the effort force is 200 N, the force arm is 20 cm. and affects on a resistance of 400 N.
	***************************************
2.	Does the lever save effort or not ? Why ?

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# Final Examinations

Pressing on the chest of electric injured with palms.			
ional questions			
Choose the corre	ect answer:		
1. Root hairs exter	nd from cells of	layer.	
<ol> <li>epidermis</li> </ol>	b. cortex	c. endodermis	d. xylem
2. Tiny holes in the	e plant leaves are called		
a. roots.	b. stoma.	c. seeds.	d. root hairs
Give reasons for	the following:		
1. Each stoma is s	urrounded by two guard	cells.	
Al Oaliuhya Go	verporate Al	Posola Longua	na School
Al Qaliubya Go	vernorate Al	Resala Langua	ge School
Al Qaliubya Go		Resala Langua	ge School
er the following q	uestions :	Resala Langua	ge School
or the following que	owing statements :	Day	<b>e</b> 0
Complete the following quality of the crowbar is considered a	owing statements :	ver but the man	<b>e</b> 0
Complete the following quality of the crowbar is considered a	owing statements : considered alever.	ver but the man	ual broom is
Complete the following quality of the followin	owing statements : considered a lever. ar eclipse are a	ver but the man	ual broom is
considered a conductors.  The type of lever levers that always	owing statements: considered a	ver but the man	ual broom is als that are el
Complete the following quality of the following quality of the following quality of the following quality of the considered a secondary of the types of large conductors.  4. The type of lever levers that always and secondary of the following quality of the following qual	owing statements: considered a level lever. lar eclipse are are examined and are examined are that always conserved by statement are examined to the statement are stateme	ver but the man	ual broom is als that are el, while the tic circuits.
complete the following questions:  1. The crowbar is a considered a  2. The types of lunce conductors.  4. The type of lever levers that always and  5	owing statements: considered a level lever. lever. lear eclipse are are examples and are examples are examples are are examples that always conserves by doesn't conserve effort are two ways of conservers.	rer but the man	ual broom is als that are el

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمسوية

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W2+2 0

9,

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W

[B] Correct the underlined words:	
<ol> <li>In the third class levers the force arm may be equal to the resistance arm.</li> </ol>	()
<ol><li>To observe lunar eclipse you need special glasses.</li></ol>	()
<ol><li>We put off electric fires by water.</li></ol>	()
<ol><li>The fluorescent lamp contains inert gas neon.</li></ol>	()
<ol><li>The fishing hook is an example on first class levers.</li></ol>	()
<ol><li>The lunar eclipse occurs five times per year.</li></ol>	()
<ol><li>Touching the spark that results from electric fires causes electric shock.</li></ol>	( )
<ol> <li>When the effort force = 20 N, resistance is 8 N and the effort form = 4 cm, so the resistance arm = 100 cm.</li> </ol>	orce ( )
2. [A] Put (✓) or (x):	
The spiral base has two pieces of lead.	( )
<ol><li>It is safe to observe the solar eclipse with naked eyes directly.</li></ol>	( )
The effort arm is measured in centimetre or metre.	( )
<ol> <li>On connecting the light bulbs in series, the lighting of the bulbs by increasing the number of bulbs.</li> </ol>	decreases ( )
<ol><li>Touching a naked wire that has an electric current passing thro causes an electric fire.</li></ol>	ugh it
6. Bottle opener is a kind of levers that pick up the very small obje	ects. ( )
[B] What happens when ?	
Both of force arm and resistance arm equal 10 metres.	
2. A part of your body touches an electric iron that is connected to	electricity.
3. The Moon comes between the Sun and the Earth on one straig	ht line.
[C] Write the labels, then answer:	(4) 2
1. ①	VIII
②	— W
3	3)
<b>(4)</b>	
(114)	

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والصوا

2+2.

#### Final Examinations

2.	The state of the s	uld bein order to th	
	a. closed.	b. opened.	c. unimportant.
3.		of wood in this circuit, it will t	
	a. closed.	b. opened.	c. both (a) and (b).
A] W	rite the scientific te	erm :	
1.	The faint outer shad	ow area.	<b>(</b>
2.	The fixed point of a	rigid bar on which the bar ro	otates. (
3.	Effort force × Its arm	= Resistance × Its arm.	(
	The metal that is use fluorescent lamp.	ed in making the filament of	the (
	The type of lunar ec	lipse in which the whole Moonth.	on enters
6.	The type of levers th	nat its mid-point is the effort	force. (
[B] G	ive reasons for :		
1.	The light bulbs are o	connected in parallel in the h	nouse.
	***************************************		
2.	The nail clipper save	es effort.	
[C] G	ive an example for		
1.	A first class lever tha	at saves effort :	
2.	An increasing speed	d lever:	
3.	A type of material th	at covers the inner surface of	of fluorescent lamp :
4.	A precaution that yo	u should follow on dealing w	vith electricity:
[A] CI	hoose the correct a	nswer:	
		he total lunar eclipse, the Mo	oon colour tends to be
	a. yellow.	b. orange.	c. red.
	lacescales the tomo	perature of the electric machine	ines causes
2.	increasing the temp	relatione of the electric mach	incs causes

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

No. ② represents the ..... area.

حهاب المحاد

2+2

## Final Examinations

dditional questions			
[A] What happens if ?			
Root system is not extended between the soil particle	98.		
There is no osmosis feature in the plant.			
[B] Complete the following statements :			
Plants do process to make own food.     The outermost layer of a plant root is called			
Menofia Governorate Shebeen El-Koum Educations:  [A] Complete the following statements:  1. From the first class lever and in the solar  2. The is between Sun and in the solar  3. The harms resulted from the electric shock depend on the first class lever and from the third that is the function of each of the following?	r eclipse.		
[A] Complete the following statements:  1. From the first class lever ———————————————————————————————————	r eclipse.		
I. From the first class lever	r eclipse.		
[A] Complete the following statements:  1. From the first class lever ———————————————————————————————————	r eclipse.		
I. From the first class lever	r eclipse.		

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

स्थान्त्रिया क्ष्यान्या क्ष्या

<ol><li>The first man</li></ol>	who described the lev	er was Archimede	es. (
<ol><li>The arm of for</li></ol>	ce is shorter than the	arm of resistance	in
the third class	lever.		(
and the arm of	t class lever was afforce 20 cm and was of the resistance arm	affected by resi	
***************************************			
[C] Label the figure	:		
			0-100
②			
③			\A/
<u> </u>			4
•			
(A) What happens	/ if ?		
	cells of the stoma ca	nnot change their	shapes.
2. A plant is kept	in dark for a long per	iod of time.	
[B] Choose the cor	rect answer:		
	is a vital process, who	ere the plant is	water.
a. gaining	b. absorbing	c. losing	d. (a), (b) and (c)
	water by		
2. Plant absorbs			
<ol><li>Plant absorbs</li><li>a. flowers.</li></ol>	b, root hairs.	c. stem.	d. leaves.

# Answer the following questions :

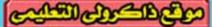
## 1. [A] Complete the following statements :

- 1. The ..... class levers sometimes save effort.
- 2. In connecting all parts of the electric circuit, it will be ..... circuit.
- 3. If a dark object gets in the way of light, ..... of the object is formed.
- 4. ....is an example of levers that is used to perform tasks accurately.

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والصيفة





<del>പ്രത്യ</del>വാത്രത്തിക്കു

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخر المطالب المتعادل المتعادل المعاد المع

## Final Examinations

A] Correct the underlined words :	
1. The scissors is used to increase the spec	ed. (
<ol> <li>The Moon gets coloured <u>blue</u> at the begin eclipse.</li> </ol>	nning of the lunar
3. The outer faint shadow of the Earth is called	ed antumbra. (
4. The lead wire carries the light bulb in upr	ight position. (
B] Look at the opposite figure, then comple	te the following:
The electric lamps are connected in	
If one of the electric lamps in the circuit burnt, the lightning of the other	Lamp (1)
lamps,	Lamp (2)
because	Lamp (3)
	The second second
ditional questions	The state of the s
A] Put (√) sign in front of correct statement statements :	ts and (x) sign in front of
A] Put (√) sign in front of correct statement	ts and (*) sign in front of cortex.
A) Put (   ) sign in front of correct statement statements:  1. The outermost layer of the plant's root is one of the plant's roo	ts and (x) sign in front of cortex. If water to the xylem.
A] Put ( ) sign in front of correct statement statements:  1. The outermost layer of the plant's root is of the pl	ts and (x) sign in front of cortex. If water to the xylem.
A) Put ( ) sign in front of correct statement statements:  1. The outermost layer of the plant's root is of the pl	ts and (x) sign in front of cortex. If water to the xylem.
A) Put ( ) sign in front of correct statement statements:  1. The outermost layer of the plant's root is of 2. Endodermis layer regulates the passing of the scientific term of the following:  1. The vital process by which green plants in 2. The energy needed for the plant to form it	ts and (x) sign in front of cortex. If water to the xylem. Inake their own food. (
A) Put ( ) sign in front of correct statement statements:  1. The outermost layer of the plant's root is of the pl	ts and (x) sign in front of cortex. If water to the xylem. Inake their own food. (
A) Put ( ) sign in front of correct statement statements:  1. The outermost layer of the plant's root is of 2. Endodermis layer regulates the passing of the scientific term of the following:  1. The vital process by which green plants in 2. The energy needed for the plant to form it	ts and (x) sign in front of cortex. If water to the xylem. Inake their own food. (

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

स्थान्त्रिया क्ष्यान्या क्ष्या

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخر

# Final Examinations

• [A] Put ( / ) or ( x ):		
1. Tweezer is a type of	f 3 <sup>rd</sup> class lever.	( )
2. The first class lever	s always conserve effort.	( )
3. The human body is	bad conductor of electricity	<i>i</i> . ( )
4. The solar eclipse of	ccurs at night.	(
5. Electric overload ma	ay cause electric fires.	(
6. The presence of wo	od in the electric circuit mal	ke it opened. (
[B] Give reasons for :		
The third class level     the effort.	ers are very important altho	ough they do not conserve
2. Electric lamps are	connected in parallel in the	home.
3. Occurrence of total	I lunar eclipse.	
4. The filament of ligh	nt bulb is made of tungsten	
. [A] Choose the correct	answer:	
1. Levers were descri		
a. Newton.	b. Faraday.	c. Archimedes.
2. Electric wires must	be covered with	
a. plastic.	b. iron.	c. aluminium.
3. The phenomena of	f eclipse does not	occur to the Moon.
a. partial	b. annular	c. total
4. The arm of resistar	nce in the class le	ver may be equal effort arm.
a. first	b. second	c. third
<ol><li>The phenomena of month.</li></ol>	f lunar eclipse occurs on th	eday of the lunar
a. 5th	b. 14 <sup>th</sup>	c. 25 <sup>th</sup>
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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى المحاسم الانتجاب المحادة المحا

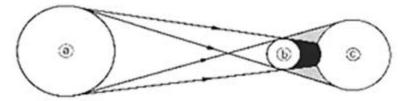
## Final Examinations

a. Scissors	b bt tonnelses	a Coal holder
	b. Nutcracker	c. Coal holder
[B] The figure represents	the light bulb,	9
look then write what the	ne numbers indicate :	
①		30-(-(\)
②		/ 14/
③		
<b>④</b>		
[C] Problem :		0 100
If a first class lever is a	affected by a force = 500 N	N and its arm = 20 cm.
and the resistance force	ce = 200 N. Calculate the	resistance arm.
	***************************************	
2. The fluorescent lan		s and a little ofver, while the fishing hook is
***************************************		
	s represent two electric	
[B] The following figure:		
[B] The following figure:	a) which the light bulbs are	circuits (a) and (b):

- 1. The fixed point at which the lever rotates around.
- 2. One of the dangers of electricity that causes the damage of the body tissues.
- 3. It occurs when the whole Moon enters the shadow area of the Earth. ( ----- )
- 4. A rigid bar that rotates around a fixed point and affected by an effort force and a resistance force.

# [C] Notice the following figure, then answer the following questions:

- The figure represents an astronomical phenomenon which is
- 2. Write the labels (a,b and c) in the figure :
  - (a) .....
  - (b) ------
  - © -----



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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخر

2+2.

## Final Examinations

2. Part of	Moon enter	s the shadow a	rea of the E	arth.			
BI Put ( 1	or (se) in fre	ont of the folio	wing:	****************			••
and the second second	Committee of the second	ers has the res		een the fo	orce		
and th	e fulcrum.					(	
2. The M	oon is colou	red in red at th	e start of tot	al lunar e	clipse.	(	
3. The se	da water op	oener is an exa	mple of sec	ond class	lever.	(	
4. Fires	esulted fron	n electricity are	put out by v	vater.		(	
1		precaution wh					
			************	*************			
ditional que						-	
ditional que	stions	A				h	
ditional que	the correct	answer:				ì	-
(A) Choose 1. The p	the correct	answer:		process		1	is
(A) Choose 1. The plant response	the correct ant makes in	answer:	oughc. s	process	d. photo	1	is
(A) Choose 1. The plant response	the correct ant makes in piration	answer: ts own food thr	oughc. so	process	d. photo	1	is
[A] Choose  1. The plant responsible at two	the correct ant makes in biration to oma in a pla	answer: ts own food through digestion ant is surround b. three	oughed byc. fo	process ensation guard o	d. photocells.	1	it
(A) Choose 1. The plant responsible to the state of the s	the correct ant makes in biration to oma in a pla	answer: ts own food thr b. digestion ant is surround	c. so	process ensation guard o	d. photo: cells. d. five	synthes	
(A) Choose 1. The plant respondence of the standard respon	the correct ant makes in biration to oma in a plant scientific in the plant to	answer: ts own food thr b. digestion ant is surround b. three term of the fo	c. so c. fo	process ensation guard cour	d. photo: cells. d. five	synthes	

<u>උද්දේශය</u>

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

स्थान्त्रिया क्ष्यान्या क्ष्या

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى **والمسوية** 

## **Final Examinations**

special devices to look	r. It require precaution, warn at it.	(
P.O.C	r eclipse and lunar eclip  Solar eclipse	Lunar eclipse
Reason:		
Time of occurrence :		
Complete the labels :		9
0		The transfer of the same
②		3) — /I.\
③		N/ = /H
<b>④</b>		
tional questions		
] What is meant by ?		
Osmosis feature.		
***************************************		
<ol><li>Selective permeability</li></ol>	<b>'</b> .	

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى في المعلم

2+2.

## Final Examinations

Most electric lamps contain argon gas inside.	
***************************************	
Second class levers always conserve the effort.	
[B] Correct the underlined words in the following statments	:
1. Connecting the electric lamps in the house must be in se	ries. (
<ol> <li>Solar eclipse occurs when the Earth comes between the the Sun.</li> </ol>	Moon and
<ol> <li>Light becomes more bright when we connect more than series.</li> </ol>	one bulb in
<ol> <li>Fluorescent lamp contains oxygen gas inside.</li> </ol>	(
[A] Put ( V ) or (x) in front of the following:	
Lunar eclipse causes harms to the eyes.	,
We must not play with electric connections.	
Copper and iron are insulators to electricity.	,
4. Third class levers don't conserve the effort.	
[B] Complete the following statement :	
Lunar eclipse can be seen in any place on the and colour of the Moon tends to be	when it starts to
Iditional questions	
[A] Write the scientific term of the following:	
<ol> <li>It loses water from the plant in the form of water vapour.</li> </ol>	(
<ol><li>A system in the plant that is branched and extended through the soil to fix the plant.</li></ol>	gh (
[B] What is the function of ?	

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والصفي

Behiera Governorate | Ismael El-Habrouk Language School |

Answer the following questions :	
1. [A] Complete the following statements :	
Lunar eclipse occurs when the Sun, Earth and  and in the middle.	are one straight line
<ol><li>When the force arm is longer than resistance arm, than</li></ol>	is smaller
<ol><li>In the class lever the is between fulc resistance.</li></ol>	rum and the
4. Some of the types of electric lamps are and .	***************************************
[B] Give reasons for :	
The filament of the light bulb is made of tungsten.	
2. Some levers save effort.	
2. [A] Correct the underlined words :	
The lever consists of fulcrum only.	(
<ol><li>The inner surface of the tube of the fluorescent lamp carbonic material.</li></ol>	is covered with
Nutcracker is one from the first class lever.	(
<ol> <li>Touching the naked wires that has an electric current electric fire.</li> </ol>	, ,
[B] What is the importance or uses of ?	,
The inert argon gas in the light bulb.	***************************************
<ol><li>Special glasses in the solar eclipse.</li></ol>	

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخ

## Final Examinations

The second secon	the scientific	term of each of th	ne following:	
1. The		ssors is one examp		()
2. The	lunar eclipse	in which the whole	Moon enters the shad	ow
	a of the Earth.			()
3. For	ce x Its arm =	Resistance × Its ar	rm.	( )
4. A ri	gid bar that rot	ates around a fixed	points and is affected	i
	•	and a resistance fo		( )
(B) What	happens who	en ?		
	the second secon		tion of the fluorescent.	
2 Th	e resistance fr	orce is larger than the	he effort force.	
2. 111	e resistance ic	nce is larger than to	no enort force.	
****				
IAI Choo	se the correct	t answer:		
			pse, the colour of the	Moon tends
	be	/==> (=		
	gray.	b, yellow.	c, orange.	d. red.
		g used to avoid dar		
	coal holder.	g used to avoid do.	b. wheelbarrow.	
			d, manual broom	
100.179,000	scissors.	i		
			nd in the fluorescent la	mp but not
	the light bulbs		b. Argon.	
	Neon.			
	Mercury vapou		d. Water vapour	
			are measured in	
a.	Newton	b. metre	c. centimetre	d. Hertz

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى 🍱

## Final Examinations

3. Wood is considered a good conductor to electricity.			
<ol> <li>The force is fixed point that a rigid bar sits on.</li> </ol>			(
[B] What happens i			
1. You place the	electric heater too clos	se to furniture and ru	ugs.
***************************************		······	······
2. A part of Moon	enters the shadow area	a of the Earth.	
	•••••		
[A] Choose the corr	rect answer:		
<ol> <li>The fluorescent</li> </ol>	lamp contains the iner	t gas.	
<ol><li>a. hydrogen</li></ol>	b, nitrogen	c, argon	d. helium
	se occurs when the Me ne Moon light turns to	1 2 9990	-shaded area only.
a. No lunar	b. Partial lunar	c. Total lunar	d. Total solar
3 is exa	ample of materials tha	t are electric conduc	ctors.
a. Wood	b. Glass	c. Plastic	d. Copper
4. The electric la	mps are connected in	the house in	
a. series.	b. parallel.	c. variable.	d. (a) and (b).
[B] Look at the follo	owing figure,		1
then write the la	abels on the figure:		1 (%)
0	***************************************	D 655	
②			
③		4	2
<b>④</b>		L	_ 1 _
. [A] Write the scient	tific term for each of	the following state	ments:
<ol> <li>A rigid bar rota</li> </ol>	ates around a fixed po	int, and is affected b	
resistance.			(
2. It occurs to the	e Moon when it compl	etely enters the sha	
Earth.			(
3. One of the da	ngers of the electricity	is causing the dama	
the body.			(
4. Levers that so	metimes conserve the	e effort.	
			135

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والصوي

المراب ال

Science

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## Final Examinations

2. [A] Write scientific	term:		
1. A force that re	esults from the body that we wa	ant to move.	-)
	er that sometimes conserves eff		)
	f electricity in electric circuit.	(	.)
4. Astronomical	phenomena occur when the Su one straight line and the Moon in	(1) 1 전 1 전 1 전 1 전 1 전 1 전 1 전 1 전 1 전 1	.)
[B] 1. The opposit	e figure represents	1144444	
2. Label the figure 1 cm. 2 cm	ire:	æ	(3)
③			
<b>4</b>			1
3. [A] Correct the un	derlined words :	700	_
1. The electric of	current has many branches whe series connection.	en the electric lamps are	. )
2. Scissors is a	third class lever.		.)
3. Total lunar ed	clipse occurs when the whole of	Moon enters	
penumbra a	rea.	(	.)
4. The filament	is made of <u>iron</u> .		)
[B] Give reasons f	for: U U		
1. Third class I	ever always does not save effor	rt.	
***************************************			***
2 Mo waar sa	ecial glasses during solar eclips	••	
2. We wear sp	ecial glasses during solar ecips	· · · · · · · · · · · · · · · · · · ·	
••••••			
4. [A] Choose the co	rrect answer		_
	e Moon's faint outer shadow in v	which the partial solar eclipse	
appears.			
a. Umbra	b. Penumbra	c. Antumbra	
	ا تيرم ۲ (م : ۱۸)	137 العامر سرونات (Notebook) / ١-ب	)

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى في المعلم

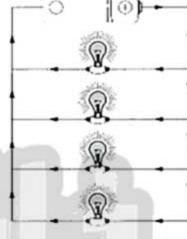
2	is use	d to prevent	t the air from	reaching	the filament
---	--------	--------------	----------------	----------	--------------

- a. Base of bulb
- b. Glass bulb
- c. Tungsten
- Time taken by solar eclipse is ..... time taken by lunar eclipse.
  - a. equal

b. shorter

- c. longer
- In second class lever, ..... in the middle.
  - a. fulcrum
- b. effort force
- c. resistance force

# [B] Write the type of each connection and which of them is used to connect the electric lamps inside the house and why?



1. ..... connection

10

2. .... connection

3. We use ----- inside the house, because -----

## Additional questions

### [A] What happens if ... ?

There is no osmosis feature in the plant.

## [B] Give reasons for the following:

- The two guard cells change their shapes from time to time.
- Plants make photosynthesis process.

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

### **Final Examinations**

23	Assuit Governora	te
/LU		

Administration of Governmental Language Schools

Language School	X5	10					
Answer the following questions :							
1. The type of levers where the arm of the force and the arm of resistance are equal is							
					rubber are considered from the electric		
					4. The manual broom is a class lever.		
					2. [A] Put ( V ) or (x) in front of each statement and correct the	wrong one :	
The fulcrum in scissors lies between force and resistance.	(	)					
<ol><li>The spiral base of the light bulb glows due to passing the e current through it.</li></ol>	electric (	)					
<ol><li>If the force arm is smaller than the resistance arm, the level saves effort.</li></ol>	er (	)					
Lunar eclipse occurs in the end of lunar month.	(	)					
5. Human body is a good conductor of electricity.	- U	)					
[B] What happens when ?							
Putting off the electric fires with water.							
The light bulb in the house are connected in series.							
3. [A] Write the scientific term :		_					
<ol> <li>Way used to connect electric lamps in branching routes.</li> </ol>	(	)					
2. It occurs when part of the Moon enters the shadow area							
of Earth	(	)					
	13	9)					

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمسوية

ما المحادث الم

2+2.

## Final Examinations

	Sohag Governorate Science Inspectorate		4
nswe	r the following questions :		
- [A]	Complete the following statements :		
	1. In first class levers, the fulcrum is found between and		
	The crowbar is an example of theclass levers.		
	3. The law of levers states that		
	4. The fluorescent lamp contains gas.	20	
[B]	A force of the first class lever equals 500 Newton and its force arm : cm calculate the resistance arm given that the resistance is 200 Newton		n.
		.,	
	······································		
[A]	Put (√) or (x) in front of each statement and correct the wrong one	<b>9</b> :	
	1. Electric shock occurs as a result of passage of the electric current to the		
	human body.	(	
	0 0	,	•••
	Connecting electric lamps in the house is in series.	(	
	3. Although the two phenomena of lunar and solar eclipses attract people	e's	
	attention, they do not affect life on Earth.	(	
			•••
	4. If the injured with an electric shock can't breathe start immediately arti	ficia	ıl
	respiration.	'	
(B)	What happens if ?		
[-]	The light bulbs in the house are connected in series.		
	***************************************	*****	
[C]	Mention precautions in dealing with electricity (two only).		
_	Write the scientific term in each of the following :		-

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى في المعلم

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

## **Final Examinations**

dditional apportions	
dditional questions	
[A] Write the scientific term of the foll	lowing:
<ol> <li>A system in the plant that is branc</li> </ol>	
the soil to fix the plant.	(
<ol><li>It loses water from the plant in the</li></ol>	form of water vapour. (
[B] Give reasons for the following:	
Plants make photosynthesis process	\$.
25 South Sinai Governorate	Science Inspectorate
nswer the following questions :	
[A] Complete the following statements	
1. In the third class levers, the	lies between and fulcrum.
2. From electric insulators	and
<ol><li>From the components of the electrical</li></ol>	ric circuit electric wires, switch and
Solar eclipse occurs when     on the same straight line.	lies between the and the Sun
Er Til	
tissues.	s that causes damage of the human body
tissues.	
tissues. 6. Sweet holder is an example of	ut electric fires.
tissues.  6. Sweet holder is an example of  [B] Give reasons for:  1. We cannot use water in putting out	ut electric fires.
tissues. 6. Sweet holder is an example of  [B] Give reasons for: 1. We cannot use water in putting out	ut electric fires.
tissues. 6. Sweet holder is an example of  [B] Give reasons for: 1. We cannot use water in putting out 2. Some levers are important to man	ut electric fires.  n although they don't save effort.
tissues.  6. Sweet holder is an example of  [B] Give reasons for:  1. We cannot use water in putting out  2. Some levers are important to man  [A] Choose the correct answer:  1	ut electric fires.  n although they don't save effort.

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والصوا

المكالسان الأناسان الأناسان المناسان ال

2+2.

## Final Examinations

resistance and the lever saves effort	t. ( )
<ol><li>In the second class levers the force the resistance.</li></ol>	arm may be equal to
B] Compere between :	•••••••••••••••••••••••••••••••••••••••
Total lunar eclipse	Partial lunar eclipse
	Partial lunar eclipse  (B) a. connect the electric current. b. source of the electric current. c. sometimes saves effort. d. always save effort. e. always don't save effort. 3. 4
[C] Join from column (A) with the suitable (A)	
1. Fishing tool	
2. Seesaw	
3. Nutcracker	
4. Two pieces of lead in the base of the light bulb	e. always don't save effort.
1,	34.
A] Write the scientific term :	
	다른 아이들은 아이들은 아이들은 아이들은 아이들은 아이들은 아이들은 아이들은
<ol><li>A coiled thin wire made of tungsten</li></ol>	
<ol><li>A way in which the light bulbs are co where the light intensity of the bulbs</li></ol>	decreases by increasing
their numbers.	
<ol><li>The fixed point of a rigid bar on which</li></ol>	ch the bar rotates. ()
<ol><li>One of the dangers of electricity occur.</li></ol>	
of electric current through the huma	n body. ()
<ol><li>Levers at which the fulcrum lies betw</li></ol>	een force and resistance. ()
	المعلصد عادم سات (Notebook) / ١ ب/ نيره ١ (م : ١

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والصوي

2+2 9

[B] In a lever if the length of the force arm = 4 cm, the length of the
resistance force = 6 cm, and the value of the force = 48 N.
Calculate the value of the resistance.
•••••••••••••••••••••••••••••••••••••••
[C] What happens if ?
The electric lamps in decorative lights are connected in series not parallel.
2. The whole Moon enters the semi-shaded area of the Earth.
3. The electric lamps contain atmospheric air.
You place the electric heater too close to furniture and rugs.
dditional questions
[A] Put (√) sign in front of correct statements and (x) sign in front of false statements :
Root hairs extend from the cells of the endodermis layer.     ( )
2. Water rises inside the plant stem through the wood tissue. ( )
[B] What happens if ?
A plant is kept in dark for a long period of time.
Absence of cell membrane of the root hairs.

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والصوا

### **Answers of Final Examinations**

## Cairo Governorate

### Manor House International Schools

- 1, argon memury vacour,
  - 2, resistance arm effort force arm.
  - 3. lunar solar
  - 4. electric light
  - 5. fulorum.
  - 6. Moon oval
  - 7, Archimedes,
- 1. Parallel connection.
  - Pertiel lunar eclipse.
  - Second class levers.
- 3. (A) 1. Because it emits harmful rays as ultraviolet (UV) and infrared rays that effects the eye retina and may cause blinchess within few seconds.
  - 2. Because it has fulcrum between the offort force and the resistance force.
  - 3. To avoid occurrence of electric shock as water is a good conductor of eladicity.
  - (B) Fillor force x 'ls arm = Resistance force x its arm

100 x 5 = Resistance force x 20

100 × 5 .: Resistance force -20 - 25 Newton

- This lever does not save effort.
- 4. (A) 1. This lever is a third class lever.
  - 2. The total lunar aclipse occurs.
  - (B) 1. Light bulb.
    - 2. C Glass bulb.
      - Argon gas.
      - (3) Tungston filement.
      - Copper and lead wires.
      - Base of light bulb.

### Additional questions

(A) 1. (x)

2. (1;

(B) 1. Photosynthesis process.

Light energy.

#### (2 Patriarchal College

- 1. (A) 1, the effort arm the resistance arm.
  - 2. electric fires.
  - 3. phosphoric material.
  - 4. electric pums 5. resistance - effort
  - 6. Solar eclipse
  - (B) 1. The electric current doesn't flow through the electric circuit, because glass is a bad conductor of electricity.
    - The fire will increase and could harm. the rescuers, because water is a good conductor of electricity.
- 2. (A) 1. Electric shock.
  - 2. Partial lunar edipse.
  - 3, Ind rect injuries. 4. Penumbra.
  - (B) 1. If heats up and omits tight when the electric current passes through it.
    - 2. It works as a source of electric current n the electric c-rouit.
  - (C) In series connection:
    - The light bulbs are connected one after another in one route.
    - The light intensity decreases by increasing the number of lamps.

### In parallel connection:

- The light bulbs are connected in branching routes.
- The light intensity remains constant by increasing or cecreasing the number of lamps.
- 3. (A) 1. d. ovorload and electric fire.
  - 2. c. full Moon
- 3. c. electric burn.
- d. no eclipse.
- (B) 1. It is a closed and continous path through which, the electric current will pass making a complete cycle.
  - 2. It is the unar eclipse which occurs when the whole Moon enters the shadow area (umbra) of the Farth,
- (C) Effort force x Its arm = Resistance force × Its am

 $200 \times 50 = 1000 \times its arm$ 

∴ Arm of realstance = 200 x 50 1000

- 10 cm.

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى







- This lever may be first class lever or second class lever.
- (A) \*. (x) ... into light energy.
  - 2. (1)
  - 3. (x) ... the first class lever and it saves effort.

  - (B) '. Because it emits harmful rays to the eye such as ultraviolet (UV) and Infrared rays that may cause hlindness within few seconds.
    - 2. Because in the 2nd class levers, the offort force erm is always longer than the resistance arm.
  - (C) a. Do not play with the electric connections.
    - b. Do not insert a metallic object in the
    - c. Do not touch the ejectric machines that are connected to the electric current with wet hand.
    - d. Do not try to fix or clean any electric machine while connected to the electric current.

### Additional questions

- (A) 1. photosynthesis
  - 2. shoot system.
- (B) 1. The plent cannot make photosynthesis process due to the absence of light.
  - 2. The stoma cannot be opened or closed.

## Baseteen and Dar Al Salam Educational Administration

- 1. (A) '. h. 14"
  - 2. b. seesew.
  - 3. b. its high malting point.
  - 4. b. 20 cm.
  - (B) '. a. Paralle connection.
    - b. Series connection.
    - 2. a. The other three light balbs are lighted up with the same light intensity.
      - b. The other three ligh! bulbs are turned off.

- (C) 1 The solar aclipse occura.
  - 2. The fire will increase and could herm resource as water is a good conductor of electricity.
- 2. (A) 1. Third class levers.
  - 2. Electric shock.
  - 3. Lunar non eclipse.
  - 4. Electric lamp.
  - (B) Effort force x its arm = Resistance force x its arm

500 x 20 = 200 x its arm

- ∴ Resistance arm = 500 × 20 = 50 cm.
- · Yes this lever is in state of balance, because the result of effort force x its arm equals to the result of resistance force x its arm.
- (C) 1. 1 Tho Sun.
  - The Moon.
  - (3) The Earth
  - Earth's umbra.
  - 2, red Earth's atmosphere doesn't absorp infrared rays coming from the Sun and retracts them on Moon.
- (A) 1. Used to pick up very small objects.
  - 2. It protects the filament from burning and increases the lifetime of the tlament.

(B)

Solar collpse	Lunar eclipse	
<ol> <li>It is seen at morning only.</li> </ol>	It is seen at night only.	
2. It causes serious harms to eyes.	2. It doesn't cause any harm to eyes.	

- (C) a. The solar eclipse.
  - b. Because the outer solar corona emits ultraviolet (UV) and Infrarec rays that effects the eye retine and may cause blindness within fow minutes.
- 4. (A) 1. ... in the fluorescent lamp contains ...
  - 2. ... which always save ...
  - 3 Wood and plastic ...
  - 4. The manual broom is ...

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخر:



### Answers of Final Examinations

- (B) 1. Because they occur as a result of the Earth and the Moon rotation which can be calculated by scientists.
  - To avoid occurrence of electric fires.
- (C) Circuit (A), because iron (coin) is a good conductor of electricity which allow the flow of electricity through.

### Additional questions

(A) 1. (x)

- 2. (x)
- (B) 1. To make their own food.
  - 2. To open and close the storia.

### East Nasr City Educational Directorate

- 1. 1. Fulcrum.
  - 2. First class levers.
  - 3. Thomas Alpha Edison.
  - Parallel connection.
  - 5. Umbra.
  - Annular solar eclipas.
- 2. (A) Effort force x Its arm = Resistance force x Its erm

50 x 20 = Resistance force x 5

.. Resistance force = - 200 Newton

(B) 1. (x) 2. (x) 3. (x)

4. (1)

- 3. 1. mldd e
- 2. Sorar
- doesn't change.
- 4. lungsten.

- the arm of resistance and force are equal.
- 4. (A) 1. 2<sup>nd</sup> class lever.
  - 2. 3rd class lever.
  - 3. doesn't save.
  - 4. Junar.
  - (B) 1. Because seesaw has fulcrum between the effort force and resistance force. walk wheelbarrow has the resistance force between effort force and fulcrum.
    - 2. Because water is a good conductor of electricity, so it increases fires and could harm the rescuers.

### Additional questions

- (A) 1. shoot system,
- 2. transpiretion
- (B) 1. Stomets.
- Epidermis.

#### Rod El Farag Directorate 5 Saint Mary's School

- 1. (A) 1. c. argon
- 2, h, partial lunar
- 3. c. nutcracker.
- 4. b. tungsten.
- 5. c. Fulcrum
- 6. b. light
- b, the light intensity decreases.
- 8. a. Iron
- (B) 1. Because they are important in other things as :
  - Incressing distance.
  - Increasing speed.
  - Avoid dangers,
  - Accuracy in performance.
  - 2. To prevent turning att all the amps of the house when one lamp is damaged or turned off.
- 2. (A) 1. Electric shock.
  - 2. The solar eclipse.
  - 3. Second class levers.
  - Phosphoric material.
  - 5. Mercury vapour.
  - 6. Total lunar eclipse.
  - (B) 1. This causes an electric enock.
    - When the temperature of the heater Increases, it may burn the furniture and rugs causing electric fires.
    - 3. The eye retina will be harmed and blindress may occur.
- 3. (A) 1. resistance force effort force.
  - 2. thrid class
  - a good conductor of electricity.
  - 4. two hours.
- 5. first class
- (B) (\*) Electric bulb.
  - @ Electric wire.
  - Switch.
  - Battery.
- (C) EFort force > Its arm = Resistance force x Its arm

50 x 20 = Resistance force x 5

.: Resistance force =

= 200 Newton

- 4. (A) 1. (V) 2. (x)
- 5.11 6. (1)
- (B) It is a rigid bar (straight or curved) that tolles around a fixed point called fulcrum, and is affected by an effort force and a resistance force.
- (C) 1. A part of your body touches fire or spark resulting from the electric fire.
  - 2. Do not p ay with the electric connections.

### Additional questions

- (A) 1. c. losing
- 2. b. root herra.
- (B) 1. (x).

2. (x)

### Giza Governorate

### Al-Mostakbal Modern Language School

- 1. 1. firs: third
  - 2 light hulb fluorescent lamp.
  - 3. Wood plastic rupber
  - 4, a good conductor of electricity
  - Series connection parallel connection.
  - 6. Moon
- 7. annular
- 2. (A) 1. b
- 2. 8
- 3. d 4. c
- (8) Effort force x lls arm = Resistance force
  - $500 \times 20 = 200 \times 16 \text{ arm}$
  - 500 × 20 .. Resistance arm = 200
  - 60 cm.
- 3. 1. Fulcrum.
- 2. Third class lever.
- Parallel connection.
- 4. Electric shock.
- 5. Partial !unar eclipse
- Total solar ed pse.
- 4. (A) 1. Because it has high melting point that prevents the melting of the filament at high temperatures.
  - To avoid occurrence of electric fires.
  - Because the Earth has a great size relative to the Moon, so it aways blocks a I sunlight when It comes batwoon the sun and the Moor on the same straight line.

- 4. Because the Sur emits harmful rays to the eye such as ultraviolet rays (UV) and infrared ray that may cause blindness within few seconds.
- (B) 1. (√) 2.(1)

### Additional questions

- (A) 1. The stoms cannot be opened or glosed.
  - 2. The plant canno: make photosynthesis process due to the absence of light,
- (B) . To make their own food.
  - To open and close the stores.

#### Experimental Language (7 Schools Inspectorate

- 1. (A) 1. Crowbar sclesors
  - 2. total .unar eclipse partial lunar oclipse.
  - 3, argon mercury vapour.
  - (B) 1. first
- 2. electric shock
- 3. electric
- 2. (A) 1. Para lel connection.
  - 2. Electric conductors.
  - 3. Lever.
- 4. Electric circuit.
- (B) Because it has high melting point that prevents the molting of filament at high terrqueralures.
- 3. (A) 1. s. copper.
- 2, b, middle
- 3. b. increasing size.
- 4. b. Second
- (B) Effort force × Its arm = Resistance force × its arm
  - Effort force  $\times 5 = 10 \times 2$
  - .. Fffort force = 10 × 2 = 4 Newton
- 4. (A) 1. (V) 2. (x)
- 3. (x)
- (B) The fire will increase and could harm the rescuers as water is a good conductor of electricity.

### Additional questions

- (A) 1. transpiration
- 2. shoot system.
- (B) 1. Photosynthesis process.
  - Light energy.

### Answers of Final Examinations

### Alexandria Governorate

### Brilliance Language School

- 1. (A) 1, second IIrst
  - 2. tungsten molting point.
  - 3. Solar Moon
  - copper good conductor
  - (B) 1, series.
    - 2. The other two light builts are turned off.
- (A) 1. Electric insulators.
  - 2. Electric shock.
  - 3. Fulcrum.
  - 4. Total lunar eclipse.
  - (B) Effort force x its arm = Resistance force xits arm

100 x its arm = 200 x 20

.. The length of the force arm

200 × 20 = 40 cm.

- 3. (A) 1. a. Fishing hook 2. b. Edlson.
  - 3. a. rubber.
- 4. c. no eclipse.
- (B) 1. Because water is a good conductor of electricity, so it increases fires and could harm the rescuers.
  - 2. Because the effort arm is always longer than the resistance arm, so the effort force is always smaller than the realstance force.
- 4. (A) 1. (x) .... in the first class lever ....
  - 2. (x) .... the solar eclipse ....
  - 3. (1)
  - 4. (x) .... a good conductor ....
  - (B) 1. The filament will burn when it heats up.
    - 2. The effort force 3 larger than the resistance force and the lever doesn't conserve effort.

#### Additional questions

- (A) 1. d. photosynthesis
- (B) 1. The plant cannot make photosynthesis process due to the absence of light.
  - The stome cannot be opered or closed.

### El-Agamy Educational Directorate

- 1. 1. first therd
  - tungsten me ting point.
  - 3, the strength of the electric current that passes through the human body - the time taken by the electric current,
- 2. (A) 1. The Moon light turns to be faint without being eclipsed which is known as lunar non-eclipse,
  - 2. The filament will bur when it heats up.
  - (B) 1, c. decreazing the speed.
    - 2, b, rubber. 3. a. coal holder.
    - 4. c. lunar eclipse.
- 3. (A) 1. Because it has the resistance force between fulcrum and the effort force.
  - 2. To protect the filament of tungsten from burning so the lifetime of the filament increases.
  - (B) 1. Electric lamp. 2. Electric burns.
    - 3. Phosphoric material.
    - 4. Fulcrum.
- 4. (A) Effort force : its arm = resistance force x its arm

400 x 100 = 800 x its arm

- :. Resistance arm 400 x 100 50 cm.
- (B) 1. Lunar eclipse.
  - 2. (f) Moon.
- @ Earth.
- (2) Sun.

#### Additional guestions

- (A) 1. shoot system.
  - 2. photosynthesis
- (B) To make their own food.

## 10 East Zone Educational Directorate

- 1. (A) 1. effort arm resistance arm,
  - 2. electric light
  - 3. the Moon the Sun
  - 4. good bad
  - (B) 1. Partial lunar eclipse occurs.
    - When one of the lamps damaged or turned off, all the other lamps in the house will turn off.

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى





- 2. (A) 1, Fulcrum.
- 2. Electric shock.
- J. Argun gas.
- (B) Effort lonce x its arm # Resistance force × Its arm

 $500 \times 20 = 20 \times 18 \text{ arm}$ 

- ∴ Resistance arm = 500 × 20 = 500 cm.
- 3. (A) 1. (x)
- 2. (1)
- (B) 1. Bacausa the Sun emits harriful rays to the eye such as ultraviolet rays (UV) and infrared rays that may cause blindness within few seconds,
  - 2. Due to the refraction of some infrared rays that are not absorbed by the Earth's atmosphere.
- 4. (A) 1. a. coal holder.
  - 3. c. nutoracker.
- 4. c. doesn't change.

2. b. 'ess

(B) Fig. (a), Because iron (metallic coin) is a good concuplor of electricity.

### Additional guestions

- (A) 1. The storna cannot be opened or closed.
  - 2. The plant cannot make photosynthesis process due to the absence of light.
- (B) 1. (x)

11

2.1/1

### CI Gomrok Educational Directorate

- (A) 1. Soler eclipse
  - 2. conductor insulator
  - 3. second third
  - (B) The law of lever = Effort force x its arm
    - Resistance force x its arm

500 x 20 = 200 >, he arm

- = 50 cm. Rosistance arm =
- 2. (A) 1. c. Meroury vapour.
  - 2. a. first
- 3. a. electric fire.
- 4. a. the middle
- (B) 1. Because the effort arm always longer than the resistance ann, so the effort force is always smaller than the resistance force.

- 2. Because the Sur crits harmly rays to the aye such as ultraviolet rays. (UV) and infrared rays that couse blingness within few seconds
- (A) 1. Parallel connection.
  - 2. Fulcrum.
- 3. Electric burns.
- Archimeces.
- (B) 1. Part al lunar epipse occurs.
  - This causes an electric shock.
- (A) ① Tungsten filament,
- (2) Argon gas,
- ② Copper and leac wire.
- (C) Glass bulb.
- (5) Base of the light bulb.
- (B) spiral base.
- (C) It protects the filament from burning when it heats up and increases its lifetime.

### Additional questions

- (A) 1. transpiration
  - 2. shoot system,
- (D) 1. Photosynthesis process.
  - 2. Light energy

#### Middle Zone Educational 12 Directorate

- 1. (A) 1. second third 2. dancers.
  - 3. first manual broom
  - 4. light bulbs fluorescent Ismpe.
  - 5. solar eclipse Moon
  - (B) This may cause electric burns for a human body.
- (A) 1. Series connection.
  - Copper and lead wire.
  - Electric burns.
  - (B)

Points of comparing	Solar eclipee	Lunar aclipse
The body that hides sunlight:	Moon.	Cartti.
Occurrence time :	It is seen at morning only.	It is seen at night only.
Duration time :	It doesn't exceed seven minutes and few seconds.	It may last for more than two hours.

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخ





### Answers of Final Examinations

- 3. 1. b. effort,
- 2. b. Tweezera
- 3. a. Newton.
- 4. c. Mercury.
- 5. b. overload.
- 6. a. umbra area
- 4. (A) 1. Effort force x its arm = Resistance force xits arm  $200 \times 20 = 400 \times its arm$ 
  - ∴ Resisiance arm =  $\frac{20 \times 200}{100}$  = 10 cm.
  - Yes, this lever saves effort because the force arm is longer than the resistance arm.
  - (B) \*. Because it emits harmful rays to the eye such as ultraviolet rays (UV) and Infrared rays that cause bindness within few seconds.
    - 2. To maintain the heart bests of the intured.

### Additional questions

- (A) 1. a. epidermis
- 2. b. stuma
- (B) 1. To control opening and closing the
  - To make their own food.

## Al Qaliubya Governorate

- 1. (A) 1, first class third class
  - 2, total lunar eclipse partial lunar eclipse.
  - 3. Iron copper lead
  - 4. second class third class.
  - 5. Parellel connection serios connection
  - 6. the flament the glass bulb the base of the light bulb.
  - 7. effort resistance
  - (B) 1. first
- 2. solar
- 3. sand.
- 4. argon.
- 5. third
- 6. avo
- 7. electric burns.
- 8. = 10 cm.
- 2. (A) 1. (x)

- 3. ( > )
- 2. (x) 5. (x) 4. (1) 8. (x)
  - (B) 1. The effort force is equal to the resistance force.
    - 2. This part of your body will expose to electric burn.
    - The solar eclipse occurs.

- (C) 1. (D) Battery.
  - (2) Electric bulb.
  - (D) Switch.
  - (4) Electric wire.
  - 2. a. closed
- 3, b, opened,
- (A) 1. Penumbra.
- 2. Fulcrum.
- 3. The law of levers. 4. Tungsten.
- 5. Total kinar eclipse,
- Third class levers.
- (B) 1. To prevent turning off all the lamps of the house when one lamp is damaged or turned off.
  - 2. Because the effort arm is longer than the resistance arm.
- (C) 1, Crowbar.
- Hockey bst.
- Phosphoric material.
- 4. Do not place several connections in the same socket.
- 4. (A) 1. c. red,
- 2. c. electric fire.
- 3. b. Mercury vapour. 4. c. retina
- 5. c. water pump.
- 6. c. both (a) and (b).
- (B) Effort force x its arm = Resistance force me sti x
  - 500 × 20 200 × its arm
  - ∴ Resistance arm = \frac{500 \times 20}{200} = 50 cm.
  - This lever doesn't save effort because the force arm is shorter than the resistance arm.
- (C) 1. d
- 3. b
- (D) 1. Lunar eclipse.
- 2. Umbra.
- Penumbra.
  - 4. Partia: lunar eclipsc occurs.

### Additional questions

- (A) 1. The plant cannot be fixed in the soil and also the root cannot absorb water and mineral salts that are necessary for photosynthesis process.
  - 2 Water cannot transport from the soil to the root hairs, so the plant will wilt and die.
- (B) 1. photosynthesis
- epidemnis.

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى



المكالسان الأنكال الكالكال الكالكالكال المكاد



### Menofia Governorate

- 1. (A) 1. crowbar 30958W.
  - 2. Muon Earth
  - the strength of the electric current that passes through the human body - the lime taken by the electric current to pass through.
  - 4. nutcracker manual broom
  - (B) 1. It protects the filament from burning when it heats up and increases its
    - 2. To connect the lamp to the electric circuit
- (A) 1. First class lever.
  - 2. Second class lever.
  - 3. Phosphoric meterial.
  - 4. Portiol lunar eclipse.
  - (B) 1. Bocause the Fanh has a great size relative to the Monn, so it always. blocks all sunlight when it comes between the Sun and the Moon on the same straight line.
    - 2. Because the effort arm is always shorter than the resistance arm, so the effort force is always larger than the resistance force.
- 3. (A) 1. u. aluminium.
  - 2. a. nutoracker.
  - 3. a. firs:
  - 4. c. remains constant.
  - (B) 1. Total lunar edipse occurs.
    - 2. The eye reting will be harmed and blindness may occur.
- 4. (A) 1. (X)
- 2. (1)
- 3. (1)
- 4. (1)
- (B) Effort force x Its arm = Resistance force x Its onn 500 x 20 = 200 x Hs arm

  - : Resistance ann = 500 x 20 = 50 cm.
- (C) ① Argon gas,
  - Turasten filament.
  - (i) Glass bulb.
  - 3 Bass: of the light bulb.

### Additional questions

- (A) 1. The stoma cannot be opened or dosed.
  - 2. The plant cannot make photosynthesis process due to the absence of light,
- (B) 1, c. losing
- 2, b, root hairs.

#### 15 Gharbia Governorate

- 1. (A) 1. first

  - 3. the shadow
  - 4. Twoozora
  - (B) 1. Because it heats up and emits light when the electric curren: passes :hrough it.
    - Because in the second levers, the effort arm is always longer than the resistance arm.
- 2. (A) 1. Rellna.
  - 2. Etoctric insulators.
  - 3. Third class lever.
  - 4. E actric burns.
  - (B) Effort force x its arm = Resistance force
    - 40 a 5 Resistance force x 25
    - .: Resistance force (the weight)

- 3. (A) 1. a. Archimedes.
  - 2. c. no unar
  - 3. b. Mercury vapour.
  - 4. c. wheelbarrow.
  - (B) 1. The solar eclipse occurs.
    - 2. The effort force and the resistance force are equal and this lever doesn't conserve effort.
- 4. (A) 1. nockey but
- 2. red
- ponumbra.
- 4. The base of the light built:
- (B) 1. parellel.
  - 2. doesn't change there are branching routes for the clockric current to pass through the circuit.

### Answers of Final Examinations

### anditional guestians

(A) 1. (x)

- 2. (1)
- (B) 1. Photosynthesis process.
  - 2. Light energy.

#### Dakahlia Governorate (16

- 1. (A) 1. The force ann the resistance arm.
  - increasing force increasing distance.
  - Direct injuries indirect injuries.
  - 4, dosed,
  - argon mercury vapour.
  - Moon Earth three.
  - (B) 1. Second class leves.
    - Yes, it conserves effort.
    - The force arm is longer than the resistance ann.
    - 4. Nutcraker.
- (A) 1. Electric burns.
  - 2. Electric Insulators.
  - Paralel connection.
  - Relina.
  - 5. Penumbra,
  - The law of levers.
  - (B) 1. The filament will burn when it heats up.
    - Partial lunar eclipse occura.
    - 3. The fire will increase and could harm the rescuers as water is a good conductor of electricity.
- 3. (A) 1. (V)
- 2. (x)
- 3. (x)

- 4. (x)
- 5. (1)
- 6. (1)
- (B) 1. Because they are important in other things as:
  - Increasing distance.
  - Increasing speed.
  - Avolo dangers.
    - Accuracy in performance.
  - To prevent lurning off all the lamps of the house when one tamp is damaged or turned off.
  - 3. Because the whole Moon onters tho shadow area (umbra) of the Earth.
  - 4. Because it has high melting point that prevents the melting of the filament at high temperaturea.

- 4. (A) 1. n. Archimedes
- 2, a, plastic,
- 3. b. annular
- 4. a. first
- 5. b. 14th
- 6. a. light
- (B) 1. series.
  - 2. The lamps remain lighting as iron (coin) is a good conductor of
  - electricity.
  - The other two lamps are turned off.

### Additional guestions

- (A) 1. To make their own food.
  - 2. To open and close the stoma.
- (B) 1. transpiration.
  - shoot system.

#### (17 Ismailia Governorate

- 1. (A) 1. a. first
- 2. b. Iron
- c. lunar non-ecliose.
- 4. b. Nulctacker
- (B) (1) Glass bulb.
  - 3) Tungsten filament.
  - Argon gaa.
  - 3) Base of the light bulb.
- (C) Effort force x its arm = Resistance force × Its arm

  - 500 x 20 = 200 x lts arm
  - :. Resistance arm = 500 x 20 200
- 2. (A) 1. force registance
  - 2. argon mercury vapra.s.
  - 3. first third class lover
  - (B) 1, a, Series connection.
    - b. Parallel connection.
    - 2. Circuit (b).
    - 3. To prevent turning off all the lamps of the house when one lamp is damaged or turned off.
  - (C) 1. Increasing speed.
    - 2. Increasing distance.
- 3. (A) 1. Because the effort arm is always longer than the resistance arm, so the effort force is always smaller than the resistance force.
  - 2. Recause the Sun em to harmful rays to the eye such as a traviolet rays (UV) and infrared rays that may cause blindness within few seconds.

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخر



المرائع المحادث المحاد

والمطالب الكرك الك



- (B) 1, Fulcrum,
- 2. Floatric purns,
- 3. Total lunar eclipse.
  - 4. Lever.
- (C) 1. Solar eclipse.
  - 2. (9) Sun.
- (b) Moon.
- (c) Earth.
- 4. (A) 1. The effort force is equal to the resistance force and this lever doesn't conserve effort.
  - Partial lunar eclipse occurs.
  - (B) 1. (K)
- 2.(4)
- 3. (1)
- (C) 1. Do not place several connections in the same socket.
  - Do not play with the electric connections.

### Additional questions /

- (A) 1. d. photosynthesis
  - 2. p. two
- (B) 1. Root nairs.
  - 2. Light energy.

#### Suez Governorate 18

- 1. (A) 1, effort force fulcrum.
  - 2. second first
  - 3. battery electric wires.
  - 4. argon
- 5. electric current
- (B) 1. (V)
- 2. (x)
- 3. (1)
- 1.(1)

- 2. (A) 1. Fulcrum.
- Series connoction.
- 3. Electric amp.
- 4. Eleptric insulators.
- (B) 1. To avoid occurrence of electric fires.
  - 2. Because the effort arm is always longer than the resistance arm, so the offort force is always smaller than the resistance force.
- (A) 1, c, copper,
  - 2, a. annular eclipse.
  - a. decreasing speed.
  - 4. c. faint.
  - (B) Effort force a lts and Resistance force x lls ann
    - 200 × 6 = 100 × its arm
    - :. Resistance arm = 200 x 5 = 10 um.
- 4. (A) 1. first
  - 2. Lunar eclipse

### (B)

P.O.C	Solar aclipsa	Lunar eclipse
Reason:	It occurs when the Moon comes between Earth and Sun on one straight line.	Farth comes between Moon and Sun on one
Time of occurrence :	It is seen at meming only.	It is seen at night only.

- (C) ① Glass bulb.
  - Tungsten filament.
  - Argon gas
  - Base of the light bulb.

### Additional questions

- (A) 1. It is the transmission of water molecules through semi-permeable membrane from an area with high concentration of water in an arrange low concentration of water,
  - 2. It is a process by which the cell membrane of the mot nair allows some types of salts to pass according to the plant's need.
- (B) The stoma cannot be opened or closed.

#### Kafr El-Shelkh Governorate (19

- 1. (A) 1, a, 2
- 2. b. tungeten.
- 3. a. first
- 4. a. in the morning.
- (B) 1. Electric circuit.
  - 2. The electric will be open, so the electric current does not pass through the circuit and the lamp dopon't light.
- 2. (A) 1. b
- 2. c
- 3. 0
- (B) 1. Electric conductors.
  - Indirect njuries.
- (A) 1. To protect the flament from burning. so the lifetime of the filament incresses.
  - 2. Because the effort arm is always longer than the resistance ann. so the effort force is always smaller than the resistance force.

## Answers of Final Examinations

- (B) 1. parallel, 3. less bright
- Lunar 4. argon
- 4. (A) 1. (x) 2. (V)
- 3. (x)
- (B) Earlt rod.

## Additional questions

- (A) 1. Sloma.
  - 2. Root system.
- (B) If fixes the plant in the soil,
  - It absorbs water and mineral salts from the soil.

### Behlera Governorate ⟨20 ⟨

- 1. (A) 1. Moon Earth
  - 2. offort force res stance force.
  - 3, third effort force
  - light bulbs fluoreagent lamps.
  - (B) '. Because it has high melting point that prevents the melting of the filament at high temperatures.
    - 2. Because in theze levers, we use a smail force to make a great effort.
- 2. (A) 1, effort force, resistance force and fulcrum.
  - 2. phosphoric material.
    - 3. second
    - 4. electric shock.
  - (B) 1. It protects the flament from burning when it heats up and increases its lifet nre.
    - 2. To protect the eye retina from the hermful rays as ultraviolet (UV) and infrared rays that emit from the Sun and may cause plindness within few minutes.
- 3. (A) 1. First class lover.
  - 2. Total lunar eclipse.
  - 3. The law of levers.
  - 4. Lever.
  - (B) 1. The fluorescent lamp can't be connected to the electricity.
    - 2. The lever saves effort.

- 4. (A) 1. d. red.
  - 2. a. coal holder.
  - 3. c. Mercury vapour,
  - 4. a. Newton.
  - (B) Effort force x Its arm = Resistance force mis sti x

    - $400 \times 20 = 200 \times 20$ 8000 ¥ 4000

Sc. this lever isn't in state of balance because the result of effort force x its arm is not equal to the result of mrs ati x ecnatalser

## Additional guestions

- (A) 1. (x)
- 2. (1)
- (B) To open and close the stome.

### (21 Fayouni Governorate

- 1. (A) 1. Lunar eclipse Earth
  - 2, second class thire class
  - 3. first third
  - 4. lungster molting point.
  - (B) Effort force x its am1 = Resistance force x Its arm

Effort force  $\times 10 = 200 \times 20$ 

- .. Effort (affecting) force = 200 x 20 = 400 Newton.
- 2. (A) 1. ight 2. second
  - 3. bad 4. Fulcrum
  - (B) 1. When the temperature of hoster increases, it may burn the furniture and rugs causing electric tires.
    - Portla lunar eclipse occurs.
- 3. (A) 1. c. argon
- 2. a. No lunar
- d. Copper
- 4. b. parallel.
- (B) (1) Electric bulb.
- (2) Electric wire.
- :3: Battery.
- (4) Connecting wire.
- 4. (A) 1. Lcver.
  - 2. Total lunar ectipse.
  - 3. Electric purns.
  - 4. First class lever.

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

- (B) 1. Because the sunlight passes in straight lines and if a dark object like the Moon in solar sclipse or Earth in lunar eclipse obstruct it, a shadow (umbra) is formed.
  - 2. To connect the lamp to the electric circuit.

## Additional questions

- (A) Pith Xylem layer Endodermis layer -- Cortex layer ---- Epidermis layer.
- (B) 1. They absorb water and mineral salts 'rom the so l.
  - 2. It regulates the passage of water to the xylem (wood tissue).

### El-Minia Governorate (22

- 1. (A) 1. Newton 2. second
  - 3. Thomas Alpha Edison.
  - 4 twice
  - (B) Effort force x its area = Resistance force x Its arm.

500 20 = 200 x Its arm

- .. Resistance arm (Location) = 500 × 20 = 50 cm.
- 2 (A) 1. Resistance force.
  - 2. First class Lever.
  - 3. Battery.
  - Solar eclipse.
  - (B) 1. Light bulb.
    - 2. Ti Glass bulb.
      - (2) Argon gas.
      - (3) lungston filament.
      - (4) Base of the light bulb.
- (A) 1. parallel
- 2. first
- 3. umbra
- 4. lungsten.
- (B) 1. Because the effort arm is always shorter than the resistance arm, so the effort force is always larger than the resistance force.

- To protect our eyes from ultraviolet and infrared rays coming from the Sun that may cause blindness within few seconds.
- (A) 1. b. Penumbra
  - 2. h. Glass bulb
  - 3. b. shorter
  - 4. c. resistence force
  - (B) 1. Series
    - 2. Parellol
    - 3. parallel when one or more lamps burn out, the other lamps don't turn off.

## Additional questions

- (A) Water cannot transport from the soil to the root hairs so the plant will will and die.
- (B) 1. To open and close the stoma.
  - 2. To make their own lood.

## Assuit-Governorate

- 1. 1. first class lever.
  - 2. Moon Earth.
  - 3. concuctors insulators.
  - 4. third
- 2 (A) 1. (V)
  - 2. (x) The tungsten filamort of the light
  - 3. (x) ..., the lever does not save effort.
  - 4. (x) ... in the middle of lunar month,
  - 5. (1)
  - (B) 1. The fire will increase and could harm the rescuers as water is a good. conductor of electricity.
    - 2. When one of the lamps damaged or tumed off, all the other lamps in the house will turn off.
- (A) 1. Parallel connection.
  - 2. Partial lunar eclipse.
  - 3. Electric burns.
  - 4. Third class level.
  - (B) 1. Because the Sun emits harmful raya to the eye such as ultraviolet ray (UV). and infrared rays that may cause blindness within few seconds.

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

## Answers of Final Examinations

- 2. Because somotimos in the 12 class levers, the effort arm is longer than the resistance arm.
- 4. (A) 1. Light bulb.
  - 2. 1 Tungsten filament.
    - 2) Glass bulb.
    - (3) Base of the light bulb.
  - (B) Effort force x its arm Resistance force x Its arm

 $50 \times 20 =$  Resistance force  $\times 5$ 

 $50 \times 20$ .. Resistance force -= 200 Newton

## Additional questions

- (A) 1. ruot hairs
- 2. stomata lower
- (B) To make their own foud.

### 244 Sohag Governorate

- (A) 1. offort force resistance force.
  - 2. first
  - 3. effort force x its arm = resistance force x ds am.
  - 4. amon
  - (B) Effort force x its arm = Resistance force x its arm = 200 x its arm 500 20

500 × 20 : Resistance ann = 200 = 5/0 cm.

- 2 (A) 1. (V) 2. (x) ... in parallel. 3. (1) 4.(1)
  - (B) When one of the lamps damaged or turned off, all the other lamps in the house will turn off.
  - (C) 1. Do not play with the electric connections.
    - Do not insert a metallic object in the sccket.
- 3. (A) 1. Fulcrum.
- 2. Electric lamp.
- 3. Third class levers.
- Electric conductors.
- 5. Partia lunar eclipse.
- Parallel connection.
- (B) '. Because the effort arm is longer than the resistance arm, so the effort force is smaller than the resistance force.

- 2. Because the Sun emits harmful rays to the eye such as ultraviolet rays. (UV) and infrared rays that may cause blindness within lew seconds.
- 3. To prevent turning off all lamps when one or more lamps burn out,
- 4. (A) 1. a. first
  - 2. c. cupper.
  - 3. a. Fishing hook
  - (B) Solar eclipse: Its duration doesn't exceed seven minutes and few seconds. Lunar eclipse: Its duration may last for more than two hours.
  - (C) () Glass bulb.
    - Buse of the light bulb.
    - (3) Tungsten Illament,
    - (4) Argon gas.

## Additional questions

- (A) 1. Root system. 2. Storia.
- (B) To make their own food.

### 254 South Sinal Governorate

- 1. (A) 1. offert force resistance force 3. battery.
  - 2. wood plastic. 4. Moon - Earth
- 5. electric burns
- 8, third class
- (B) 1. Because water is a good conductor of electricity, so it increases fires and could harm the rescuers.
  - 2. Because they are important in other things as:
    - Increasing distance.
    - Increasing speed.
    - Avoid dangers.
    - Accuracy in performance.
- 2. (A) 1. b. Wheelbarrow 2. c. remains as it is.
  - 3. c. iron.
- 4. a. Crowbar
- 5. b. ligh;
- 6. a. less than
- (B) 1. Do not play with the electric connections.
  - 2. Do not place severa connections in the same socket.
- (C) (\*) Sur...
- Z Moon.
- 3 Jmhra.
- 4 Earth.

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخر





- J. (A) 1. (x) The fluorescent lamp ...
  - 2. (x) ... is a second ...
  - 3. (1)
- 4. (🗸)
- 5. (x) ... the force less than ...
- 6. (x) In the first class ...

(B)

Total lunar eclipse	Partial lunar eclipse
It is the lunar eclipse which occurs when the whole Moon enters the shadow area (umbra) of the Earth.	It is the lunar eclipse which occurs when a part of the Moon enters the shadow area (umbra) of the Earth,

- (C) 1. e
- 2. c
- 3. d
- (A) 1. Second class levers.
  - 2. Fllament.
  - 3. Series connection.
  - 4. Fulcrum.
- 5. Electric shock.

4. 8

- 6. First class levers.
- (B) Effort force x its arm = Resistance force x its arm - Resistance force x ff
  - :. Resistance force = 48 × 4 = 32 Nevrton.
- (C) 1. When one of the lamps damaged or turned off, all the other lamps in decorative lights will turn off.
  - 2. The Moon light turns to be faint without being eclipsed which is known ea lunar non-eclipse.
  - 3 The filement will burn when it heats up.
  - 4. When the temperature of the heater increases, it may burn the furniture and rugs causing fires.

### Additional questions

- (A) 1. (K)
- 2(1)
- (B) 1. The plant cannot make photosynthesis process due to the absence of light.
  - 2. The root hairs cannot control passing of some types of salts according to the plant's need.

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخر



## Cairo Governorate

Cairo Educational Directorate

Answer the following questions	•	,
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inswe	r the following qu	esuons.	
[A]	Complete the fol	lowing statements :	
	1. The scissors ar		ever, while the manual broom
	2. The filament of	light bulb is made of	
	3. The cell member to pass through		y which allows only some salts
	4. The electric over	erload is the reason of occurr	ence of ·····
	5. Materials that a	llow the flow of electricity thro	ough them is called
[B]	Give reasons for	:	
	1. All the second	class levers always conserve	the effort.
	2. Occurrence of	the solar eclipse phenomeno	<b>n.</b>
2 [A]	Write the scienti	fic term for the following st	atements :
	1. A rigid bar that force and resis	rotates around a fulcrum and tance.	l is affected by ()
	2. Losing of exces	ss water in the shape of wate reen parts.	r vapour from the leaves ()
	•	occurs when the Earth come the Sun on the same straight	
[B]	resistance of 200 What is the leng	r is affected by force equal O Newton if the length of res th of the force arm ?	sistance arm is 20 cm.
3 [A]	Choose the corr	ect answer :	
	•	non of the lunar eclipse occur	s in the of the lunar
-	a. end	b. middle	c. beginning

	2. Stomata are widely	spread on the		
	a. stem.	b. upper surface o	f the leaf.	
	c. lower surface of t	the leaf.	•	
	3. Electric wires are co	overed with		
	a. copper.	b. plastic.	c. aluminium.	
	4. The root hairs abso	rb most of soil water by		
	a. transpiration.	b. osmosis.	c. selective permeabili	ί <b>y</b> .
	5. When the resistanc	e is between the effort ar	d the fulcrum it will be	
	a. first	b. second	c. third	
[B	<b>] What happens in the</b> 1. There is no glass bu	ulb in the light bulb.		•••••
	2. When the whole Mo	oon enters the semi-shad	ed area of the Earth.	
<u>4</u> ) [A			★) in front of incorrect on	e :
	•	e are connected in series.		)
	seconds.	ar eclipse does not excee	d seven minutes and few (	)
		ns is decreasing speed.	(	)
	4. Rubber is from insu		ĺ	)
	5. Green plant needs	light, water and carbon dicess by root system.	oxide gas to make (	)
	6. The fluorescent lam	np contains inert argon ga	as and a little amount	
	of mercury vapour.		(	)
[8	] Define :			
	Partial solar eclipse.		•	
				ar.
2	Giza Governor	rate The Ed	ucational Directorate	
Answ	er the following quest	tions :		
	A] Choose the correct	answer:		
	1. From the functions	of levers is		
	a. decreasing the s	speed. b. saving effo	ort. c. decreasing distar	nce.

		ollowing gases is found in the flu	uorescent lamp but not in the
	light bulb ?		c. Mercury vapour.
	a. Argon gas.		
	3. Solar eclipse of straight line wit	ccurs when the Earth, Moon ar	nd the Sun are nearly on one
	a. Moon is bety	ween Earth and Sun.	
	b. Earth is betv	ween Moon and Sun.	
	c. Sun is betwe	een Earth and Moon.	
	4. From the exam	nples of electric insulators is	
	a. copper.	b. wood.	c. iron.
	5. Losing of water process.	r in the form of water vapour fro	om plant is called
	a. osmosis	b. transpiration	c. absorption
[B]	Answer the follo	owing:	
		s if : The root hair doesn't secr	ete a sticky substance.
		3 II . The foot han doon too	
	2. The exerted for length of its a	orce of the first class lever ed arm equals 20 cm. and is affe	quals 500 Newton and the cted by a resistance with
	2. The exerted for length of its a	orce of the first class lever ed	quals 500 Newton and the cted by a resistance with
	2. The exerted for length of its a	orce of the first class lever ed arm equals 20 cm. and is affe	quals 500 Newton and the cted by a resistance with
	2. The exerted for length of its a	orce of the first class lever ed arm equals 20 cm. and is affe	quals 500 Newton and the cted by a resistance with
2 [A]	2. The exerted for length of its a value 200 Nev	orce of the first class lever ed arm equals 20 cm. and is affe	quals 500 Newton and the cted by a resistance with
2 [A]	2. The exerted for length of its a value 200 Nev	orce of the first class lever edure from equals 20 cm. and is affective. Two ton. Calculate the arm of the	quals 500 Newton and the cted by a resistance with e resistance.
2 [A]	2. The exerted for length of its a value 200 Nev	orce of the first class lever educated arm equals 20 cm. and is affective. Calculate the arm of the common statements:  an example of the	quals 500 Newton and the cted by a resistance with e resistance.
2 [A]	2. The exerted for length of its a value 200 Nev	orce of the first class lever educate arm equals 20 cm. and is affective. Calculate the arm of the arm of the allowing statements:	quals 500 Newton and the cted by a resistance with e resistance.
2 [A]	2. The exerted for length of its a value 200 Nev	orce of the first class lever educated arm equals 20 cm. and is affective. Calculate the arm of the common statements:  an example of the	quals 500 Newton and the cted by a resistance with e resistance.  ass levers.  gas.  is located between Sun
	2. The exerted for length of its a value 200 Nev	orce of the first class lever educate arm equals 20 cm. and is affective. Calculate the arm of the common statements:  an example of the	quals 500 Newton and the cted by a resistance with e resistance.  ass levers.  gas.  is located between Sun
	2. The exerted for length of its a value 200 New Complete the for 1. The seesaw is 2. Fluorescent land 3. Lunar eclipse pand Moon. 4. Water is transmitted.	orce of the first class lever educate arm equals 20 cm. and is affective. Calculate the arm of the common statements:  an example of the	quals 500 Newton and the cted by a resistance with e resistance.  ass levers.  gas.  is located between Sun
	2. The exerted for length of its a value 200 New Complete the for 1. The seesaw is 2. Fluorescent land 3. Lunar eclipse pand Moon. 4. Water is transmitted.	orce of the first class lever educated arm equals 20 cm. and is affective. Calculate the arm of the second statements:  an example of the second statement of the second state	quals 500 Newton and the cted by a resistance with e resistance.  ass levers.  gas.  is located between Sun
	2. The exerted for length of its a value 200 New Complete the for 1. The seesaw is 2. Fluorescent land 3. Lunar eclipse pand Moon. 4. Water is transmitted five reasons: 1. The second classical contents and classical contents are considered for the second classical contents.	orce of the first class lever educated arm equals 20 cm. and is affective. Calculate the arm of the second statements:  an example of the second statement of the second state	quals 500 Newton and the cted by a resistance with e resistance.  ass levers.  gas.  is located between Sun hair by feature.

(8) [A	Write the scientific term :		
	1. A fixed point on which a rigid bar rotates around.	(	. )
	2. Materials that allow the flow of electric current through them.	(	. )
	3. Fires occur due to the increase in temperature of electric device.	(	. )
	4. A phenomenon occurs when the Moon comes in an orbit higher from the Earth.	(	. )
[8]	Mention one function for each of the following :		
	1. Root system.		
	2. Tungsten filament.		
A [A	Put ( $\checkmark$ ) in front of correct statements and ( $x$ ) in front of wr	ong one :	
	1. The third class levers save effort.	(	)
	<ol><li>While connecting the lamps in parallel, the lamps are connect the other.</li></ol>	ed one after (	
	3. The stoma in plant is surrounded by two guard cells.	(	)
	4. The duration of solar eclipse doesn't exceed seven minutes a seconds.	nd few	)
re	The opposite figure represents	(1)	•
E MOST	the structure of electric lamp,		
	write the labels :		
	①		
	②		ര
	3		3
3	Alexandria Governorate The Educational Director	rate	
Answ	er the following questions :		
	Complete the following statements :		
	1. The lever saves effort when its force arm is than the	resistance	
	arm, and the force is than the resistance.		
	2. A little amount of is added to argon gas inside the flu lamp, and the inner surface is covered with material.		
	3 From the had conductors of electricity are and		

[B]		That is the importar The thin walls of the	nce of the following : ne root hairs.		
	2.	The argon gas inside	de the glass bulb of th	e electric lamp.	
2 [A]	CI	hoose the right ans	swer :		
	1.	The total lunar eclip	pse happens when ·····		
		a. the whole Moon	enters the shadow are	ea of the Earth.	
		b. a part of the Moo	on enters the shadow	of the Earth.	
		c. the whole Moon	enters the semi-shade	ed area of the Earth.	
		d. the Moon lies be	etween the Sun and th	e Earth.	
	2.	Water is not used in a. water decreases	n putting out the fires on the fires on the fire.	of electricity, because	······································
		b. water contains n	minerals that disconne	ct electric current.	
		c. impure water is a	a bad conductor of ele	ctricity.	
		d. impure water is a	a good conductor of e	lectricity.	
	3.	The root hair secre	etessubstanc	e that helps in attractir	ng water.
		a. solid	b. sticky	c. soft	d. smooth
[B]	W	hat happens in the	e following with men	tioning the reasons .	?
	1.	. A lamp of a group o	of lamps connected in	electric circuit in serie	s was burnt.
	2	Looking at the Sun	n during its eclipse with	out special glasses.	
	ے.				
	1 G	ive reasons for the	e following :		
		. The filament of the	e electric lamp is made	_	
	2.		of the solution inside t ncentration of the soil :		plant is
	3.	. The crowbar is a le	ever of the first class.		
	4.		nt continues passing th ced by a piece of meta		c circuit if

[B] Look at the figure that represents the Sun Earth phenomenon of the solar eclipse then, answer the following: 1. When does this phenomenon happen? ..... 2. The reigon number ① is known as ..... and the type of eclipse is ..... 3. The reigon number ② is known as ..... and the type of eclipse is ..... [A] Write the scientific term for the following: 1. A type of levers at which the force lies between the resistance and the ( ..... ) fulcrum. ( .....) 2. Two cells that surround the stoma in the plant leaf. 3. A type of telescopes in which the mirrors are used to collect light. ( .....) [B] Correct the underlined parts in the following: 1. The nutcracker is a lever of the **first** class. 2. The human body is a good conductor of electricity because it contains ( ..... ) gases. [C] A third class lever of 200 Newton force and its arm is 5 cm. affect on a resistance of 100 Newton, calculate the length of the resistance arm that makes the lever balanced. Kalyoubia Governorate The Educational Directorate Answer the following questions : [A] Choose the correct answer : 1. The force arm is sometimes equal to the resistance arm in ..... class levers. c. third d. first and third b. second a. first 2. The glass tube of the fluorescent lamp contains inert ..... gas. c. neon d. oxygen b. argon a. helium 3. In the plants, the stomata are widely spread on the ..... b. xylem tissue. a. lower surface of the leaf.

d. stem.

c. root.

	4	is a bad conduc	ctor of electricity.		
		a. Rubber	b. Aluminium	c. Copper	d. Iron
	5	The lunar eclipse pheno	menon occurs		
		a. at the end of the luna	r month.		
		b. in the middle of the lu	nar month.		
		c. at the beginning of the	e lunar month.		
		d. in the first quarter of t	he lunar month.		
[B]	In	a second class lever, th	e effort force is 50 New	vton and the	length of the
		rce arm is 20 cm. If the			
	Ca	lculate the value of the	resistance. (write the n	natnematicai	relation).
2] [A]		ve reasons :			
	1.	The second class levers	always conserve effort		
	2	Root hair secretes a stic		***************************************	•••••••••••
	۷.				
	3.	The light bulbs are conn	ected in parallel in the h	nouse.	
	4.	Each stoma is surround	•		
[B]		hat is meant by ?			
	1.	Transpiration process.			
	2	Lever.			
	ے.				•••••
	3.	The electric shock.			
	4.	Selective permeability.	•		
	\ \ \	rite the scientific term			
Ca [A]		rite the scientific term		nd.	()
		The energy needed by p		Ju.	()
		It is a fixed point, where A way of connecting the		all the lamne	
•	<u>ن</u> .	when one of them burns	·	an the lattips	( )



[B] The opposite figure represents an	(3)
astronomical phenomenon :	
1. What is the name of this phenomenon?	9.800
	1
2. Label the figure :	2
①	
②	,
③	
4 [A] What happens when ?	
1. The root of the plant whose white flower is submo	erged in the red eosin
solution.	
2. The electric lamp contains an atmospheric air fro	
O. The Fouth the Many and the Company on any other	
<ol><li>The Earth, the Moon and the Sun are on one strate the middle.</li></ol>	aignt line with the Moon in
the middle.	
4. The effort force is between the fulcrum and the re	esistance force.
[B] 1. Compare between solar eclipse and lunar ec	lipse according to :
① The reason of occurrence.	
② The time of occurrence.	
2. Mention only two precautions when dealing with	electricity
, , ,	
3. What is the function of endodermis in the root sy	rstem ?

## El-Sharkia Governorate . The Educational Directorate

Amouror	4ha	fallowing	augetione	-
Aliswer	uie	lollowilly	questions	•

Swer the following questions .	
[A] Complete the following statements :	
When the arm of the force is shorter than the arm of the resis     is larger than and thus it doesn't save effort	
2. Root hairs wall is and they absorb water from the so	il by ·····
3 and are examples of materials that are election	ric conductors.
[B] What happens when ?	
The Moon, the Sun and the Earth are nearly on the straight little the Moon in the middle.	ne with
2. A man touches uncovered wire carrying current.	
[A] Correct the underlined word :	
1. Nutcracker is from the <u>first</u> class levers.	()
2. Plant stomata are surrounded by two woody cells.	()
<ol><li>Fires resulted from electricity are extinguished by <u>water</u>.</li></ol>	()
[B] Give reasons for the following :	
<ol> <li>The third class levers always don't conserve effort.</li> </ol>	
2. Annular lunar eclipse doesn't occur.	
[A] Write the scientific term :	
1. A tool used in converting the electric energy to light energy.	(
<ol><li>Fires occur as a result of the increase in the temperature of t machines.</li></ol>	he electric (
3. It occurs to the Moon when it completely enters the shadow a	area of the
Earth.	(
4. The fixed point of a rigid bar.	•
5. A part of the plant that penetrates through the soil particles a	(

arm of the resista	ngth of a third class leance is 15 cm. if the relate of the affecting for	sistance has a value rce.	of 300 Newton
			••••••
[A] Choose the corre	ect answer :		
<ol> <li>Which gas of the electric bulk</li> </ol>	ie following gases is for	und in the fluorescent	lamp but not i
a. Neon.	b. Argon.	c. Mercury vapo	our. d. Air.
a. the light inter b. the light inter	c lamp which is connectensity decreases.  Insity increases.	ed in series with others	burns, ·····
c. all lamps turn		d. no correct an	swer.
a. photosynthes	er in form of water vapo sis.	b. transpiration.	noohility
·	unar eclipse is	d. selective perr	•
a. longer than	b. shorter than	c. equal to	d. twice
[ <b>B] Mention one fun</b> 1. Hockey bat.	ction for each of the f	following :	
2. Mirrors in Hubbl	e telescope.		
3. The base of ligh	it bulb.	•••••••••••••••••••••••••••••••••••••••	
<b>6</b> Menofia Gove	ornorate - T	El. · ID	
U MARIETA CONTRACTOR		e Educational Direct	orate
nswer the following qu	estions :		
[A] Complete the foll	owing statements by	suitable words :	
1. The partial solar	r eclipse is formed in the	earea of the	
2. The filament of a second se	the light bulb is made c	of and that is	because its
3. Root hair wall is	····· and it absorb	s water from the soil I	hv.

inner tube
inflict on as in
icity.
its:
ılcrum. ( ·······)
ues ()
minous ()
()
s water (······)
(b) (Earth) Moon
. car machines.
. Cai macimies.
f the leaf.

	3. The is con	nsidered from the f	rst class levers.	
	a. fish hook	b. <b>seesaw</b>	c. <b>nutcracker</b>	d. <b>manual broom</b>
	4. The duration of the	e solar eclipse does	not exceed	
	a. 5 minutes.		b. 6 minutes.	
	c. 7 seconds and	few minutes.	d. <b>7 minutes a</b>	and few seconds.
	5 is one of	the electric conduc	tors.	
	a. Plastic	b. Wood	c. Rubber	d. <b>Iron</b>
	B] What would happer	n in each of the fo	llowing cases	?
	1. The cone shadow	of the Moon does r		
	2. The two metallic p		l in the base of the	light bulb.
	3. The force arm is lo	onger than the resis		
<u>.</u> 9	A] Correct the underli	ned words in each	of the following	statements :
	1. The crowbar is a s	second class lever		()
	2. <b>Solar eclipse</b> doe	es not require preca	utions, warnings o	or special
	devices to look at.			()
	3. The electric lamp	converts the electr	ic energy to the <b>ki</b>	<u>netic</u>
	energy.			()
	4. The <b>photosynthe</b>		n raising water and	
	the top of the plan			()
	<ol> <li>In the <u>first</u> class left fulcrum.</li> </ol>	evers, the resistand	e is between the e	effort force and the
	[B] The force affecting of its arm is 10 cm. and the length of the 1. Is this lever balance	., if the value of th he resistance arm	e resistance equa	· · · · · ·
	2. If the lever is not be required for keeping			

# 7 El-Gharbia Governorate

## The Educational Directorate

Answer th	e following	questions:
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Answer the following questions .
[A] Complete the following statements :
1. Lunar eclipse occurs when comes between the Sun and
2. The fluorescent lamp consists of glass tube, and and
3. The glass bulb of the light bulb is filled with gas instead of
4. From examples of levers that are used to avoid dangers is
5. Lever is a rigid bar that rotates around a fixed point called and is affected by force and
[B] What happens when ?
1. The root hair of the plant secretes a sticky substance.
2. We look to the Sun with naked eye during the total solar eclipse.
The cone shadow doesn't reach Earth as the Moon comes in an orbit higher from Earth during its rotation around it.
[A] Write the scientific term :
Tiny holes that are widely spread on the lower surface of the plant leaves and the plant loses excess water through them.
An astronomical phenomenon occurs when part of the Moon enters the shadow area of Earth.  (
3. Materials close the electric circuit as they allow the electric current to flow through them.
4. Levers that have the resistance between the fulcrum and the effort force.
<b>(</b> )
5. It carries the lamp in upright position and connects the lamp to the electric circuit through two pieces of lead.
[B] A force of 500 Newton affects a first class lever and its arm equals 10 cm. If the resistance equals 200 Newton and the length of the resistance arm is 20 cm. Discover is the lever balanced or not and why?

3 [A] Ch	oose the correct answer :		
1.	The cell membrane of plant ro	oot hairs is characterized by	property.
	a. selective permeability	b. photosynthesis	c. transpiration
2.	The duration of the solar eclip	ose	
	a. may last for more than two	hours.	
	b. doesn't exceed seven min	utes and few seconds.	
	c. always occurs at night.		
3.	The lever conserves effort wh	nen	
	a. the arm of force is longer t	than the arm of resistance.	
	b. the arm of force is shorter	than the arm of resistance.	
	c. the arm of force equals the	e arm of resistance.	
4.	The operation of more than on	ne machine in the same socket	leads to
	a. electric shock.	b. increasing the electric l	
	c. all the previous.		
IBI G	ive reasons for each of the	following:	
	We can't see the Sun comple	etely during the total solar ecl	
2		e can be equal only in the first	
3	. The filament of the light bulb	is made of a coiled thin wire	of tungsten.
A CONTRACTOR OF THE PERSON OF	orrect the underlined words		
1	. Lunar eclipse phenomenon	occurs in the <u>end</u> of the lunar	
			()
		ne root hair by osmosis.	()
	. Second class levers always		()
4	. <u>Annular</u> solar eclipse occur	s in the semi-shaded area of	
			()
5	. Although crowbar is a third	class lever, it conserves effor	t. (······)

# [B] Look at the opposite two figures (a & b), then answer in spaces below each one as required.

Figure (a)	Figure (b)
(1) (2) (3)	Lamp (1) Lamp (2) Lamp (3)
	·

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			<ul><li>一个中国的自身会员自然的指导的数据中的。</li></ul>	

## Answer the following questions:

## [A] Complete the following statements :

- 1. From examples of the first class levers are ..... and ..... and .....
- 2. The harms resulting from an electric shock depend on ..... and ..... and
- 3. The root hair secretes ..... substance that helps in root ..... through the soil particles.
- 4. If we are in a place where the Moon shadow fall on the Earth thus we can see ......

## [B] What happens if ....?

- 1. A light bulb connected in series turned off.
- 2. The whole Moon enters the semi-shaded area of the Earth.

	We not disconnect the electric generate heat after using.	current from the electric machines that
2 [A	A] Write the scientific term for each	ch of the following :
	1. Small holes found in the plant	leaves. ()
	2. An inert gas fill the bulb vacuu	m. ( ······ )
	3. A phenomena occurs when the Sun and they are all on one str	e Earth comes between the Moon and the raight line.
[B	B] Give reasons for the following	:
	1. Water isn't used to put out the	electric fire.
	2. The third class levers always of	don't conserve effort.
	3. The filament of the light bulb is	s made of tungsten.
3 [A	] Choose the correct answer :	
	1. All of the following are third cla	ss levers except
	a. wheelbarrow.	b. fish hook.
	c. manual broom.	d. sweet holder.
	2. When we connect an electric be the lighting of these bulbs will	ulb in parallel with another electric bulbs,
	a. decrease.	b. increase.
	c. turn off.	d. remain constant.
	3. The bio-process where the plants is	nt loses excess water in the form of vapour
	a. respiration.	b. photosynthesis.
	c. selective permeability.	d. transpiration.
	4. From the importance of the lev	ers
	a. decreasing force.	b. increasing distance.
	c. decreasing speed.	d. not accuracy in performance

[B]	The force affecting on a second class lever equals 200 Newton and the length of its arm is 50 cm. and a resistance with a value of 1000 Newton, calculate the value of the arm of resistance?		
[A]	Put (✓) or (✗) in front of each statement :		
	1. The fluorescent lamp contains one filament of tungsten.	(	)
	2. When we are in the semi-shadow area of the Moon we watch the annular eclipse.	(	)
	3. If the force of resistance is between the force of effort and fulcrum the will be from the second class levers.	e lev	er )
	4. The salt concentration inside root hair vacuole is larger than salt concentration inside the soil.	( )	)
	5. If the arm of force is longer than the arm of resistance then the lever conserves the effort.	(	)
	6. We can look directly at the Sun during solar eclipse and our eyes will harm.	not (	)
[B]	Write the place and the function of the guard cells :		
	The place :		••••
9 (	Ismailia Governorate The Educational Directorate		
_	er the following questions :		
[A]	Complete the following statements with suitable words:		
	1. The lever is a bar that rotates around a fixed point called		
	2. The filament of the light bulb is made of because its is high.	·· po	ınt
	3. Metallic materials are considered as to electricity, while glas rubber are materials to electricity.	s an	d
	4. The lunar ······is formed when the ·····is located between the and the Moon.	ne S	un
	5. Root hair secretes substance that helps in root throsoil particles.	ough	İ



[B] V	What happens if ? :		
1	I. Touching a naked wire where an electric current passes through, whi touching the ground.	le 	
2	2. The force arm and the resistance arm in a lever are equal.		
3	3. The direct observation of a person to the solar eclipse by the naked e	∍ye. 	
2 [A] I	Put (√) or (≭) and correct what is wrong :		
	<ol> <li>In the second class lever the resistance is between the force and the fulcrum.</li> </ol>	(	)
	2. In the electric lamp, the electric energy is converted into kinetic energ	<b>ј</b>	)
;	3. Plant loses water in the form of water vapour in photosynthesis process.	(	)
•	4. The fish hook is a first class lever.	(	)
[C]	Calculate the length of the resistance arm, that regains the balance the lever, if you know that the length of the force arm is 2 cm., the force is 8 N and the resistance is 1 N.  What is the function of each of the following:  1. The insulating material in electric cables.	effo	rt 
	2. The lever in the hockey bat.		
 (A)	Write the scientific term for each of the following :		
E. J	A composition of cells which regulates water crossing into a tissue called xylem.		)
	2. An area where the whole Moon is located, is not considered an eclipse.		···· )
	3. A method in which the electric bulbs are connected in branching routes. (		···· )

[B	] Look at the following figure, then	/ 1 -
	1. Write the labels :	
	①	3+
	②	
	③	
	2. What is the function of part number	4)
[C	] Give reasons for each of the follo	wing:
	,	surrounding each stoma in the plant leaf.
	2. The swelling of the light bulb is fill	ed with argon gas.
4) [A	Choose the correct answer :	
	1. When an electric lamp is burned v	when it is connected in series with other
	electric lamps in an electric circuit	, the other lamps ······
	a. decrease their light intensity.	b. increase their light intensity.
	c. turn off.	d. explode.
	2. Which of the following is from the	third class levers?
	a. The sweet holder.	b. The wheelbarrow.
	c. The seesaw.	d. The scissors.
	3. The plant gets the mineral salts th	rough ·····
	a. osmosis.	b. selective permeability.
	c. transpiration.	d. no correct answer.
	4. The annular solar eclipse takes pl the Earth.	ace when the Moon comes in an orbit
	a. higher than b. lower tha	n c. average to d. parallel to
[B]	Compare between the solar eclips	e and the lunar eclipse in terms of the
	time of their occurrence:	
	Point of comparison Sola	r eclipse Lunar eclipse

Time of occurrence

[C] Correct the underlined words in the following statements	9 9
<ol> <li>Water is not used to put out the regular fires.</li> </ol>	()
2. Stomata are widely spread on the upper surface of the pla	ant leaves.
	()
3. The lunar eclipse extends for more than two days.	()
10 Port Said Governorate The Educational Direct	ctorate
Inswer the following questions :	
[A] Complete the following statements :	
The distance between the force and the fulcrum is known as the distance between the fulcrum and the resistance is called.	
<ol> <li> occurs when the whole Moon enters the shadow the Earth.</li> </ol>	(umbra) area of
The fluorescent lamp consists of a glass tube that contains and the inner tube surface is covered with a	
4. The scissors are example of the class levers.	
<ol><li>5solar eclipse occurs when the Moon comes in an the Earth.</li></ol>	orbit higher from
[B] What is meant by ?	
Selective permeability.	
[A] Write the scientific term for each of the following :	
<ol> <li>One of the dangers of electricity that results from an electron passing through the human body.</li> </ol>	ric current ()
<ol><li>Plant root cells which regulate water crossing into xylem tiss</li></ol>	sue. ()
<ol><li>An area that appears between the lighted area and the real we can see a part of the light source if we stand in this area</li></ol>	
[B] A third class lever, the length of its force arm is 50 cm., of its resistance arm is 65 cm., if the affecting resistance 200 Newton, calculate the value of the affecting force.	and the length e has a value of

2	. There is no osmosis fea	•	
[A] C	Choose the correct ans	wer:	
1	. All of the following are	examples of third class le	vers except
	a. seesaw.	b. manual broom.	c. sweet holder.
2	. The duration of the sola eclipse.	ar eclipse is the o	duration of the lunar
	a. equal to	b. more than	c. less than
3	. The ·····in plants i	s responsible for the phot	osynthesis process.
	a. root system	b. shoot system	
	c. all the previous ansv	vers are correct	
4	. The solar eclipse occur	s when ·····	
	a. the Earth is between	the Moon and the Sun.	
	b. the Moon is betweer	n the Earth and the Sun.	
	c. the Sun is between t	the Earth and the Moon.	
3] G	ive reasons for each o	f the following :	
1	. Lunar eclipse does not	require precautions or sp	ecial devices to look a
2	. The wheelbarrow is a le	ever that always conserve	es effort.
] C	ompare between :		
	Points of comparison	Electric conductors	Electric insulator
	Definition :		
<b>├</b>			

2. The <b>soil</b> secretes a sticky substance that helps in soil particles.	root penetration through
3. The fulcrum is between the force and the resistant	ce in <b>third</b> class levers.
5. The falcium is between the force and the resistant	()
	(
[B] Mention one function or one use for each of the f	
1. Stoma :	
2. Crowbar :	
[C] Examine the opposite	
figure, and answer the questions :	
1. Name the way of connecting	
electric lamps in :	
a	
(b)	
2. The way used to connect electric lamps in	
houses is because	
	<b>(b)</b>
11 Damietta Governorate The Education  Answer the following questions:	nal Directorate
1 [A] Complete the following statements :	
1. First class levers conserve effort when the	arm is longer than the
arm.	arm is longer than the
	amn and electric
<ol><li>The simple electric circuit consists of an electric la switch.</li></ol>	amp, and electric
The transmission of water from the soil to the vacours by the feature, while mineral salts soil by	
4. When a part of the Moon enters the Earth's umbroccurs, while phenomenon occurs when Moon does not reach the Earth's surface.	

[២]	The function of lev	ιι . ver in the tweezers and ι	nutcracker.	
[A]	Write the scientif	ic term of each of the	following :	
	1. Losing of excess through stomate	s water in the form of wa a.	ater vapour from th	ne plant leaves (
	<ol><li>A rigid bar that r force and resista</li></ol>	otates around a fixed po ance.	oint (fulcrum) and i	s affected by ( ····································
	3. A way in which the	ne light bulbs are connec	ted one after the ot	her. (
	4. Materials which	allow electric current to p	pass through.	(
	3. The concentration	on of the solution decre	ases inside the va	cuole of the roo
	hair. Choose the corre	ect answer :		
	Choose the corre	ect answer : netimes equal to the res	sistance arm in	class lever
[A]	Choose the corre	ect answer : metimes equal to the res b. second	sistance arm in c. third	class lever
[A]	hair.  Choose the corre  1. Force arm is sor  a. first  2. The fluorescent	ect answer : metimes equal to the res b. second lamp contains argon ga	sistance arm in c. third as and a little of	class lever
[A]	hair.  Choose the corre  1. Force arm is sor a. first 2. The fluorescent a. helium.	ect answer : metimes equal to the res b. second lamp contains argon ga b. mercury.	sistance arm in c. third as and a little of c. oxygen.	d. first and thir
[A]	hair.  Choose the correct  1. Force arm is sore a. first  2. The fluorescent a. helium.  3. Water and dissor	ect answer : metimes equal to the res b. second lamp contains argon ga b. mercury.	sistance arm in c. third as and a little of c. oxygen. the plant by	d. first and thi
[A]	hair.  Choose the correct  1. Force arm is sore a. first  2. The fluorescent a. helium.  3. Water and dissore a. cortex.	ect answer : metimes equal to the res b. second lamp contains argon ga b. mercury.	c. third c. oxygen. the plant by	d. first and thindd. chlorine.
[A]	hair.  Choose the corre  1. Force arm is sor a. first  2. The fluorescent a. helium. 3. Water and disso a. cortex.  4. The phenomeno	ect answer: metimes equal to the res b. second lamp contains argon ga b. mercury. blved substances rise in b. endodermis.	c. third c. oxygen. the plant by	d. first and thindd. chlorine.
[A]	hair.  Choose the correct of the correct of the fluorescent of the correct of the	ect answer: metimes equal to the res b. second lamp contains argon ga b. mercury. blved substances rise in b. endodermis. on of the lunar eclipse o	c. third as and a little of c. oxygen. the plant by c. epidermis. ccurs on the	d. first and thir d. chlorine. d. xylem. day of the

## [C] From the following table, find the length of resistance arm (X):

Force (Newton)	Force arm (cm.)	Resistance (Newton)	Resistance arm (cm.)
50	20	200	(X)

4) [A]	Give reasons for:  1. The second class levers save effort usually.
	2. In houses, electric lamps are connected in parallel.
	3. In plants, the root hair secretes a sticky substance.
[B]	Correct the underlined words :
	1. In the electric lamp, the electric energy is converted into <a href="mailto:mechanical">mechanical</a> energy.  ()
	2. Root hairs extend from the cells of <b>endodermis</b> layer. (
12 (	Kafr El-Sheikh Governorate  The Educational Directorate
Answe	er the following questions :
[A]	Complete the following statements :
	1. The fluorescent lamps contain gas.
	2. The are widely spread on the lower surface of the leaves.
	3. The electric bulbs are connected in in the houses.
	4. The seesaw is considered a class lever.
	5. The is the result of an electric current passing through the human body.
[B]	Look at the opposite diagram, then answer the following questions :
	1. Write the names of parts ① & ②.

2. Mention the function of part 3.

resistance.	ound the fulcrum, and is a	апестей by force and ()
<ol><li>The materials that do not them.</li></ol>	allow the flow of electrici	ty through ()
3. Plant loses excess water i	n the form of water vapou	ır. ( )
<ol><li>Fires occur due to the incr machines.</li></ol>	ease in the temperature of	of the electric ()
<ol><li>Occurs when a part of the of the Earth.</li></ol>	Moon enters the shadow	area ()
[B] What happens in the follow	wing cases ?	
1. When an electric lamp wh	nich is connected in paral	lel with others burns.
2. When the Earth, the Moon the Moon in the middle.	n and the Sun are nearly	on one straight line with
[A] Choose the correct answe		
1. The lunar eclipse phenom		
a. at the end	b. in the middle	c. at the beginning
<ul><li>2. Tungsten is preferred to u</li><li>a. its low melting point.</li><li>c. its high melting point.</li></ul>		
3. Levers that always conse	rve the effort	
a. first class levers.	b. second class levers.	c. third class levers.
<ol><li>Root hair absorbs water based as swallowing.</li></ol>	b. osmosis.	c. guard cells.
5. In the levers of first class		or gaara conc.
a. the force is between th		rum.
b. the resistance is between		
c. the fulcrum is between	ı	
	he following :	
[B] Give reasons for each of t		

4) [A	] Put (√) in front of correct st	atements and sign () in	n front of false stateme	ents :
	1. The two phenomena of lu	unar and solar eclipses	are repeated regularly	/ and
	can be predicted.			( )
	2. The root hair is recognize	ed with its thick membra	ne.	( )
	3. Fires resulted from electr	ricity are extinguished by	y water.	( )
	4. Levers were described by	y "Archimedes" the Gree	ek scientist.	( )
	5. The filament of the fluore	escent lamp is made of a	ıluminium.	( )
[B	] A third class lever with a fo	orce arm of length 5 cm	., and the length of th	ne
	arm of the resistance is 15	cm. If the resistance ha	as a value of 300 Nev	vton,
	calculate the value of the a	affecting force.		
49	El Pobiera Covernorat	TELL		
13	El-Behiera Governorat	I he Educati	onal Directorate	
Ancur	er the following questions			
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L) [A	] Choose the correct answ			
	1. There are many holes "s		on	
	a. the lower surface of the	•		
	b. the plant stem.	c. the paint root.		
	2. ····is a second class	ss lever.		
	a. The sweet holder	b. The wheelbarrow	c. The crowbar	
	3. Which of the following ga	ases is found in the fluo	rescent lamp but not i	n the
	electric lamp ? ·····			
	a. Neon.	b. Argon.	c. Mercury vapour.	
	4. All the following substan	ces are good electric co	nductors except	
	a. aluminium.	b. copper.	c. rubber.	
	5 occurs to the S	un when the Moon come	es in an orbit higher fi	om
	the Earth.			
	a Partial lunar eclipse	h Total lunar eclinse	c. Annular eclipse	

	Types of injuries resulting fro	-	* 1
[A]	Write the scientific term fo	r each of the following	statements :
	1. The losing of excess wate	r in the form of water vap	_ <del>-</del>
	leaves.		(
	2. Two cells surround the sto	•	(
	3. It occurs when the whole N the Earth.	noon enters the shadow a	(
	4. It is the type of levers that	always doesn't converse e	effort. ( ······
	5. It consists of a battery, a la battery to the lamp.	mp, wires and electric swi	itch to connect the
[A]	Give reasons for :		
	1. The second class levers of	onserve effort.	
	2. Root hair secretes a stick	y substance.	
	3. Water cannot be used to	out out the fire resulting f	om electricity.
	4. We should not look direct	y at the Sun with the nak	ed eye.
[B]	Complete the following tak	ole :	
	Points of comparison	Connecting in series	Connecting in paralle
	Light intensity of the lamp :		
	Removing one of the lamps from the connection :		
	What happens in the follow		

4 [A] Complete :	
①	
②	( ) ( ) ( ) ( )
③ ····································	
[B] Correct the underlined word :	4—
1. The sweet holder is a lever from the <b>first</b> class.	()
The salt concentration inside the root hair vacuole is	,
concentration of soil solution.	( ······· )
3. In the <b>second</b> class lever the fulcrum is between fo	rce and resistance.
	()
4. The human body is a good conductor of electricity a	as it contains <b>gases</b> .
	()
	·405
Fayoum Governorate The Educations	al Directorate
Answer the following questions :	
1 [A] Complete the following statements :	
There are holes called widely spread on the plant leaves used in making process.	e lower surface of the
2. When the arm of force is shorter than the arm of res	
3. In the solar eclipse, is found between the S	Sun and
[B] Mention one function for each of the following :	
1. The two guard cells.	
O. Elvarage and laws	
2. Fluorescent lamp.	

2 [A]	Choose the correct answer:  1. Which of the following gases is found in the fluorescent lamp but not in the				
	light bulb ? ·····		·		
	a. Neon.	b. Argon.	c. Mercury vapour.		
	2. Which of the following levers has the force between the resistance and fulcrum?				
	a. Nutcracker.	b. Scissors.	c. Sweet holder.		
	3. Root hair wall is $\cdots$				
	a. thick.	b. thin.	c. average.		
	4. The filament of the	light bulb is made of			
	a. iron.	b. copper.	c. tungsten.		
	We should not look eclipse.	directly at the Sun by th	e naked eye during a solar		
	2. The age of a root h	nair does not exceed a fe	w days.		
3 [A]	Write the scientific t	erm for the following :			
	1. A phenomenon occ the Earth.	curs when part of the Mod	on enters the shadow area of ()		
	2. Levers in which the	e resistance is found betw			
	and fulcrum.		()		
	<del>-</del>	bulbs are connected in be s is not affected by incre			
	number.		()		
	4. One of the dangers the body.	of electricity which cause	es the damage of the tissues of ()		
[B]	What would happen	in the following cases	?		
	1. The electric fire is	put out by water.			
		of the Moon does not rea			

4. Root hairs extend from ..... layer of the .....

## 2 Write the scientific term for the following:

- 1. Levers that have the force of effort between the force of resistance and the fulcrum.
- 2. Holes widely spread on the lower surface of the plant leaves. ( .....

3. Astronomic	cal phenomenon occu	urs when the whole	Moon enters	the shadow
	ause of passing of an	electric current thro	ugh	()
3 [A] Choose t	he correct answer :			
1. From m	naterials that are elec	tricity conductors is		
a. woo	d. b.	copper.	c. glass.	
2. Which	of the following is four	nd in the light bulb?		
a. Merc	b.	Neon gas.	c. Tungsten	
[B] Mention o	one function for :			
	cells in plant leaves.			
	in Hubble telescope.			
conside	he whole Moon entersered lunar eclipse. water is not used to p			
[B] The figure	represents a type of this lever	of levers :	Resistant loca (8	
2. What is	the importance of thi	s lever ? Why ?		Fülerum (O)
16 El-Mini	a Governorate	The Educati	onal Director	rate >
	A service of the appropriate point of the			
Answer the follow				
[A] Complete	the following stater	nents:		
1. Nutcracl	ker is from ·······c vers.	lass levers and fishi	ng tool is fro	n



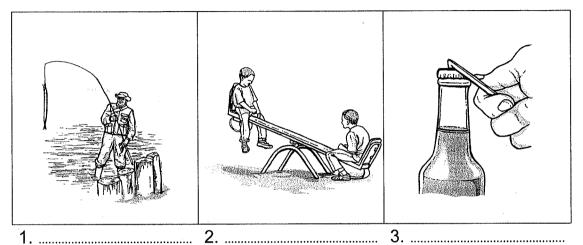
	2. The filament of the light high	bulb is made of ······ t	hat is because it has	
	3is exerted by a	person to equilibrate the ı	esistance force.	
[B]	What are the types of tele	escopes ?		
•				
[A]	Write the scientific term t	for the following statem	ents :	
	1. A rigid bar that rotates a affected by force and re-		the fulcrum, and is	· )
	2. It consists of a battery, a	lamp, connecting wires a	and switch. (	· )
	3. A glass tube is empty of	air and contains an inert	gas and a little mercury.	
	4. They are tiny holes that leaves.	widely spread on the low	er surface of the plant	· )
[B]	What happens if?  1. The light bulbs in the ho	use are connected in seri	es.	
	2. You place the electric he	eater too close to furniture	and rugs.	
	3. Put eosin solution in a te dissolved salts from the	est tube during the test of root to the other parts of		,,,,
3 [A]	Put (✓) or (≭) in front o	f the following statemen	ts:	
	1. First class levers have t	he fulcrum between the e	ffort force and the	
	resistance force.		(	)
	2. Wood material is a good		(	)
	3. Water is not used to put		ole of the const basis is	)
	4. The concentration of the higher than that of the s		ole of the root hair is (	)
[B	] Compare between the s	olar eclipse and the lun	ar eclipse :	_
	Points of comparison	Solar eclipse	Lunar eclipse	
	1. How does it occur?			
	2. Types.			

<ul><li>[A] Give reasons for the following:</li><li>1. During the start of total lunar eclipse, the colour of the Mod</li></ul>	on tends to be red.
2. Special glasses must be used to look at the solar eclipse	
3. The age of a root hair does not exceed a few days.	
[B] A third class lever, where the effort force = 200 Newton, 5 cm. and the resistance force = 100 Newton. Calculate the resistance arm.	the length the of
17 Assiut Governorate The Educational Dire	ectorate
Answer the following questions :	•
[A] Complete the following statements :	
1. The lever is a rigid bar that rotates around a fixed point c	alled
2. The simple electric circuit consists of and	
Metallic materials are considered from the electric  rubber are considered from the electric	_
4. Lunar eclipse phenomenon occurs whenis located andon one straight line.	d between
[B] Calculate the length of the resistance arm that regains to of the lever. If you know that the length of the force arm hanging force is 8 Newton and the resistance is 4 Newton	is 2 cm, the on.
	<i>p</i>
[A] Write the suitable scientific term for the following state	ments :
1. A tool used to convert electric energy to light energy.	()
2. A part of the plant that penetrates through the soil particle	es and fixes it.
	()
<ol> <li>One of the dangers of the electricity is causing the dama of the human body.</li> </ol>	ge of the tissues

4. It occurs when a part of the	ne Moon enters the s	shadow area of the Earth.
		/

5. It is a way of connecting the electric lamps, in which the light intensity decreases with the increase in their number.

### [B] Classify the following machines according to their types :



ΓΛΊ	Choose	tho	correct	anewat	
AL	CHOOSE	uie	conect	aliswei	

the human body.

1.	The root hair secr	etes a ······subst	ance which helps it	n absorbing water.
	a. solid	b. sticky	c. flexible	d. smooth
2.	All the following m	naterials allow the flow	of the electric curre	ent except
	a. copper.	b. iron.	c. rubber.	d. aluminium.
3.	Force arm is som	netimes equal to resis	tance arm in	····· class levers.
	a. first	b. second	c. third	d. first and third
4.	The phenomenor lunar month.	n of the lunar eclipse	occurs on the	······ day of the
	a. 10 <sup>th</sup>	b. 15 <sup>th</sup>	c. 25 <sup>th</sup>	d. 28 <sup>th</sup>
Co	orrect the underli	ined words in the fo	llowing sentence	s:
1.	The filament of th	ne light bulb is made	of <b>carbon</b> .	( ········)
2.	Osmosis is a bid	ological process in wh	nich the plant loses	excess water in
	the form of water	vapour.		()
3.	Partial solar eclip	ose occurs when the	Moon's cone shad	ow (umbra) does
	not reach the Ear	rth's surface.		()
Λ	The electric fire	occurs due to the na	ssage of the electr	ic current through

[B]

4 [A] Notice the following figure then write the la	bels on the figure :
· ① ··································	4
[B] Give reasons for the following:	-2
<ol> <li>You must not look directly at the Sun during solar eclipse.</li> </ol>	3
2. The age of a root hair does not exceed a few	days.
[C] What happens in each case of the following	յ ?
The absence of guard cells which surround to the surround	the stomata in the plant leaf.
2. The electric lamp contains atmospheric air.	
18 Sohag Governorate The Ed	ucational Directorate
Answer the following questions :	
Answer the following questions :  [A] Complete the following statements :	
Answer the following questions:  [A] Complete the following statements:  1. In the solar eclipseis found between	
Answer the following questions:  [A] Complete the following statements:  1. In the solar eclipse is found between 2. In first class levers, the fulcrum is found between 2.	ween and
Answer the following questions:  1 [A] Complete the following statements:  1. In the solar eclipse is found between 2. In first class levers, the fulcrum is found between 3. The in plant is surrounded by two general statements:	weenandguard cells.
Answer the following questions:  [A] Complete the following statements:  1. In the solar eclipse is found between 2. In first class levers, the fulcrum is found between 3. The in plant is surrounded by two gets.  [B] A force of 50 Newton affected a lever of the	weenand guard cells. 2 <sup>nd</sup> class its force arm 20 cm.
Answer the following questions:  1 [A] Complete the following statements:  1. In the solar eclipse is found between 2. In first class levers, the fulcrum is found between 3. The	ween and guard cells.  2 <sup>nd</sup> class its force arm 20 cm.  of the resistance = 5 cm.
Answer the following questions:  [A] Complete the following statements:  1. In the solar eclipse is found between 2. In first class levers, the fulcrum is found between 3. The in plant is surrounded by two gets.  [B] A force of 50 Newton affected a lever of the	ween and guard cells.  2 <sup>nd</sup> class its force arm 20 cm.  of the resistance = 5 cm.
Answer the following questions:  [A] Complete the following statements:  1. In the solar eclipse	ween and quard cells.  2 <sup>nd</sup> class its force arm 20 cm.  of the resistance = 5 cm.
Answer the following questions:  1 [A] Complete the following statements:  1. In the solar eclipse is found between 2. In first class levers, the fulcrum is found between 3. The	ween and quard cells.  2 <sup>nd</sup> class its force arm 20 cm. of the resistance = 5 cm.
Answer the following questions:  1 [A] Complete the following statements:  1. In the solar eclipse	ween and quard cells.  2 <sup>nd</sup> class its force arm 20 cm.  of the resistance = 5 cm.  ements:  e of the electric current to the  ( )

### [B] Choose from column (B) that suits column (A):

1. Light bulb	a. is in series.	
2. Connecting electric lamps in	b. is in parallel.	
the house	c. changes electric ener	gy to light energy.
3. The filament of the light bulb	d. made of nichrome wir	e.
	e. made of tungsten wire	е.
1 2		3
Write the scientific term of the t	following statements :	
1. Losing of excess water in the f	orm of water vapour from	_
other green parts.		()
2. Type of levers doesn't save eff	ort.	()
3. The substances that allow the	electric current to pass th	rough them.
		()
		C (1
4. It occurs when a part of the Mo	oon enters the shadow ar	ea of the Earth.
<ul><li>4. It occurs when a part of the Mo</li><li>Mention one function for each of</li><li>1. Fluorescent lamps.</li></ul>		
Mention one function for each o		ea of the Earth. ()
Mention one function for each of the following states		
Mention one function for each of the following states	of the following :	
Mention one function for each of the following of the fol	of the following :	
Mention one function for each of the following of the correct answer from t	of the following :	
Mention one function for each of the following of the correct answer from the following the plants, the walls of root	of the following:  m the following: hairs are  b. thin.	c. intermediate
Mention one function for each of the following of the correct answer from a thick.	of the following:  m the following: hairs are  b. thin.	c. intermediate
Mention one function for each of a second of the correct answer from a second of the correct answer fr	of the following:  m the following: hairs are b. thin. ectric conducting substar b. plastic.	c. intermediate
Mention one function for each of the following of the correct answer from a thick.  2. From the examples of good elements of the correct answer from the examples of good elements of the correct answer from the examples of good elements of good	of the following:  m the following: hairs are b. thin. ectric conducting substar b. plastic.	c. intermediate
Mention one function for each of a. Fluorescent lamps.  2. Levers.  Choose the correct answer from the plants, the walls of root a. thick.  2. From the examples of good eleman wood  3	of the following:  m the following: hairs are b. thin. ectric conducting substar b. plastic. e third class levers. b. Seesaw	c. intermediatences isc. copper.
Mention one function for each of the following of the correct answer from the plants, the walls of root at thick.  2. From the examples of good el at wood 3	of the following:  m the following: hairs are b. thin. ectric conducting substar b. plastic. e third class levers. b. Seesaw	c. intermediatences isc. copper.
Mention one function for each of a. Fluorescent lamps.  2. Levers.  Choose the correct answer from the plants, the walls of root a. thick.  2. From the examples of good eleman wood  3	of the following:  m the following: hairs are b. thin. ectric conducting substar b. plastic. e third class levers. b. Seesaw I to resistance arm in b. second	c. intermediate nces is c. copper. c. Nutcracker class levers. c. third

[B] Give reasons fo	ass levers save eff	fort.
2. Decorative lan	nps are connected	in parallel not in series.
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Answer the following q	uestions :	
Complete the follow	ving statements :	
1 and	····· are two ways f	for connecting electricity.
	s of levers, increas	ing as in crowbar and increasing
3. Levers were first dinvented by the so		eientist while the light bulb was
[A] Choose the corr	ect answer from	the following :
1. The filament o	f light bulbs is mad	le of ·····
a. iron.	b. tungsten.	c. carbon.
2is a go	ood conductor of e	lectricity.
a. Wood	b. Plastic	c. Copper
3. The duration o	f the solar eclipse	does not exceed
a. 5 minutes.	b. 7 minutes.	c. 7 minutes and few seconds.
·		ewton, and the length of its force arm is ance force of 20 Newton.
1. Calculate the le	ength of the arm o	·
2. Does this lever	conserve effort or	not ? Why ?
••••••		

3 [A] Give reasons for each of the following:	
The type of eclipse changes by the movement of the Moon in front	of the Sun.
2. Water is not used to put out electric fires.	
[B] Put ( $\checkmark$ ) or ( $x$ ) in front of the following statements :	
1. The electric overload which heats up the wire causing electric fir	e. ( )
<ol><li>Fluorescent lamps are called neon lamps, because they contain gas called neon.</li></ol>	an inert
3. The partial solar eclipse is formed when the cone shadow does the Earth.	not reach
<ol> <li>The fulcrum in scissors lies between the effort force and the res force.</li> </ol>	istance ( )
<ol><li>The simple electric circuit consists of battery, electric lamp and i connect the battery to the lamp.</li></ol>	nsulator to ( )
[A] Write the scientific term of the following statements :	
One of the dangers of electricity that occurs as a result of the patthe electric current through the human body.	assage of ······)
2. The type of levers that always doesn't save effort. (	······ )
3. A device used to convert electric energy into light energy. (	)
[B] Identify the astronomical phenomenon shown in the following then answer the following questions:	figure,
1. What is the name of this phenomenon?	3
2. The duration of this phenomenon may last for more than	1 2
3. Label the figure:  ①	

### Aswan Governorate

### The Educational Directorate

Answer	the	following	questions	:
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nswer	the following ques	tions :	
<b>]</b> [A] (	Complete the follow	ing statements :	
	1. The nutcracker is a example of the	•	levers, while the scissors are
	2 and	····· are some of the dange	rs of direct electricity.
	3. Lunar eclipse pherand the M	nomenon occurs when loon.	······ is located between
	4. The root hair secre through soil particl	etessubstance to es.	help penetrating the root
	5. The filament of the	e light bulb is made of	
[B] \	What happens in ea	ch case of the following.	?
	•	he electric lamp is filled wi	
		uard cells which surround th	
2 [A]	Choose the correct	answer from the following	ıg:
	1. From the example	s of good electric conducti	ng substances is
	a. iron.	b. plastic.	c. wood.
	2. Transpiration is ····		
	a. losing of excess	s water in the form of water	vapour from plant.
	<ul><li>b. transmission of from high to low</li></ul>		semi-permeable membrane
	c. the absorption of	of water through the walls of	of the root of plant.
	3. Which statement i	s correct ?	
	a. Solar eclipse ta	kes a time equals that of lu	ınar eclipse.
	b. Solar eclipse ta	kes a time more than that	of lunar eclipse.
	c. Solar eclipse ta	kes a time less than that o	f lunar eclipse.
	4. On connecting the bulbs	e electric lamp in series wit	h others, the lighting of the
	a. unchanged.	b. decreases.	c. increases.

American de la compansa de la compa	The force arm length of a third class lever is 5 cm, and the length of the arm of the resistance is 15 cm. If the resistance has a value of 300 Newton.  Calculate the value of the affecting force.					
	······································					
3 [	A] Put (√) or (≭) in front of the following statements :					
	1. Fires resulted from electricity are extinguished by water.	( )				
	2. Stomata are widely spread on the upper surface of the leaf.	( )				
	3. Looking directly at the solar eclipse is harmful to the eye.	( )				
	4. Fluorescent lamps are called neon lamps because it contains in	ert gas				
	called neon gas.	( )				
[]	B] Give reasons for the following :					
	1. The third class levers don't save effort.					
	2. Avoid operating more than one machine in the same socket.					
4	A] Write the scientific term of the following statements :					
	1. It occurs when a part of the Moon enters the shadow area of the	Earth.				
	(·	····· )				
	2. Materials that don't allow the flow of electricity through them. (	····· )				
	3. The fixed point of a rigid bar on which the bar rotates. (	······ )				
	4. Way used to connect electric lamps in branching routes. ( ··	····· )				
	B] Label the diagram :					
	①	-( ) -0				
	2					
	3					
		2				

## The New Valley Governorate

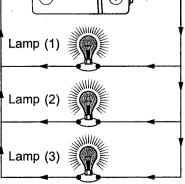
The Educational Directorate

Answer the following questions	following questions :	he	Answer
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Answer th	ne following question	s:	
1 [A] Ch	oose the correct ans	wer from the following	:
1.	Root hair wall is	••••	
	a. thick.	b. <b>solid.</b>	c. <b>thin.</b>
2.	The filament is a coiled	d thin wire from	
	a. copper.	b. <b>tungsten</b> .	c. <b>mercury.</b>
3.	The sweet holder is a	lever from thec	lass.
	a. first	b. <b>second</b>	c. third
4.	is from the ele	ectric insulators.	
	a. <b>Nail</b>	b. Coin	c. <b>Eraser</b>
[B] Co	mpare between the fo	ollowing :	
	Point of Comparison	Total lunar eclipse	Partial lunar eclipse
	To the Moon		

2 [A	Write the scientific term	n of the following st	tatements :	44
	1. The most famous teles	scope that revolves a	around the Earth.	(
	2. The losing of water fro	m small holes on the	e surface of plant	leaves.
	3. It is formed in the shad can't see the Sun com		n on the Earth an	d in which we
	4. Levers that have the fu	ulcrum between force	e and resistance.	(
[B]	In the electric circuit who 1. The kind of connecting	•	ou:	(H)

Lamp (1) 2. What happens when we unscrew one bulb or it burns out? Lamp (2) 3. What happens to the lighting of the bulbs Lamp (3) when adding fourth bulb?



[A] Complete the following sentences :	
<ol> <li>If the whole Moon enters in the area, its light turn without being eclipsed.</li> </ol>	ns to be faint
2. The fluorescent lamp contains inert gas.	
3. In the third class levers the effort force is found between	and
[B] Give reasons for each of the following:	
1. The second class levers conserve the effort.	
2. The age of the root capillary doesn't exceed a few days.	
[A] Put (√) or (x) in front of the following statements :	
1. Putting out the electric fires with water.	( )
<ol><li>Special glasses are used to observe the solar eclipse.</li></ol>	( )
3. The passage of the electric current through the human b	ody may result in
an electric shock.	(
4. Levers were first described in the year 260 B.C. by the scient	entist Galileo. (
5. The time of solar eclipse does not last more than 7 minu	tes and few
seconds.	(
[B] In this time table :	
Force Resistance Arm of force	Arm of resistance

Force (Newton)	Resistance (Newton)	Arm of force (cm)	Arm of resistance (cm)
4	10	5	(Z)
9	6	(Y)	3
(X)	7	2	4

Find the value of : (X , Y , Z)	

# 22 South Sinai Governorate

### The Educational Directorate

<b>Answer</b>	the	following	questions:
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<b>]</b> [A]			
	Complete the following sentences :		
	1. The manual broom is from class levers.		
	2. The root hair has aage.		
	3. In the solar eclipse is found between the Sun and		
	4. The filament of the light bulb is made of and that is because a high	se it ha	S
	5. In class levers the resistance is found between the force a fulcrum.	nd the	
[B]	What happens in each case of the following ?		
	1. If there are no guard cells surround the stomata.		
	2. A part of the Moon enters the shadow area of the Earth.		
2 [A	Put (√) or (x) in front of the following statements and correct the wrong one:  1. The light bulb is filled with oxygen gas.	ne (	)
	***************************************		
	2. The electric shock is the result of an electric current passing throug human body.	ih the	)
	human body.  3. The soil secretes a sticky substance that helps in root penetration t soil particles.	(	)
[B]	human body.  3. The soil secretes a sticky substance that helps in root penetration t	(	) 
-	human body.  3. The soil secretes a sticky substance that helps in root penetration t soil particles.  Give reasons for the following:	hrough (	···  )  )

3 [A] Choose the correct ans	wer from the following	s a
1. The root hair is charac	cterized with wall	•
a. thick	b. <b>thin</b>	c. intermediate
2. From the first class lev	ers is ·····	
a nutcracker.	b. sweet holder.	c. <b>seesaw.</b>
3is found in fluo	orescent lamp and not for	und in electric lamp.
a. <b>Neon</b>	b. <b>Argon</b>	c. Mercury vapour
4. Thesolar eclipthe Earth.	pse is formed in the shad	ow area of the Moon on
a. <b>total</b>	b. <b>partial</b>	c. annular
of resistance arm = 80 cr		
₹ 		
		Electric insulators
[C] Compare between each o	of the following :	
[C] Compare between each of Points of comparison	of the following :  Electric conductors	Electric insulators
[C] Compare between each of Points of comparison  Definition:	of the following :  Electric conductors	Electric insulators
[C] Compare between each of Points of comparison  Definition:  Example:	of the following :  Electric conductors  of the following statement	Electric insulators
[C] Compare between each of Points of comparison  Definition:  Example:  [A] Write the scientific term  1. Plant loses excess water	of the following :  Electric conductors  of the following statemer in the from of water var	Electric insulators
[C] Compare between each of Points of comparison  Definition:  Example:  [A] Write the scientific term  1. Plant loses excess wate  2. The fixed point of a rigid	of the following:  Electric conductors  of the following statemer in the from of water varied bar on which the bar rot	Electric insulators  ents:
[C] Compare between each of Points of comparison  Definition:  Example:  [A] Write the scientific term  1. Plant loses excess wate 2. The fixed point of a rigion 3. Occurs when the whole Management of the scientific term 4. The way that the electric	of the following:  Electric conductors  of the following statement of the from of water varied bar on which the bar rot which the shadow are clamps are connected are	Electric insulators  ents:  our. (
[C] Compare between each of Points of comparison  Definition:  Example:  [A] Write the scientific term  1. Plant loses excess wate 2. The fixed point of a rigion 3. Occurs when the whole Management of the scientific term 4. The way that the electric	of the following:  Electric conductors  of the following statement of the from of water varied bar on which the bar rot which the shadow are clamps are connected are ease in the number of large	ents:  cour. () rea of Earth. () and the intensity of the light

### [B] Choose from column (B) that suits column (A) :

(A)	(B)
1. Always save effort	a. first class levers.
<ul><li>2. Always don't save effort</li><li>3. Sometimes save effort</li></ul>	<ul><li>b. second class levers.</li><li>c. third class levers.</li><li>d. force.</li></ul>
1 2	2 3

/						1/2	
, \	23	No	rth	Sina	I GOV	erno	rate

The Educational Directorate

Answer t	he	following	questions :	
----------	----	-----------	-------------	--

1	[A] Write the scientific term for the following statements :		
	1. The fixed point of a rigid bar.	(	
	<ol><li>A tool used to convert the electric energy to light energy.</li></ol>	(	
	3. Materials not allowing the electric current passing through it.	(	
4. It occurs when a part of the Moon enters the shadow area of the Ea			
		(	
	5. Biological process through which plants lose excess water in	the form of	
	vapour.	(	
	<ol><li>The simple machines act as effort saving.</li></ol>	(	
	[B] Give reasons for the following :		
	1. You should not look directly at the Sun during solar eclipse.		
	2. The presence of two pieces of lead in the electric lamp.		

#### Complete the following sentences :

- 1. In the solar eclipse, ..... is found between the Sun and .....
- 2. The electric shock occurs as a result of passing of ..... through the human body.
- 3. The root hair is characterized with ..... wall.
- 4. Wheelbarrow is considered as ..... class lever.
- 5. All light bulbs are connected in ..... in the house.
- 6. Lunar eclipse occurs in the ..... of the lunar month at a rate of ..... per year.

3 C	hoose the correct answe	<b>1</b> 1			
1.	is a good conduc	ctor of electricity.			
	a <sub>.</sub> Iron	b. <b>Plastic</b>	c. Wood		
2.	The root hair secretes	······ substance w	hich helps in absorb	ing water.	
	a. solid	b. <b>sticky</b>	c. flexible	<b>;</b>	
3.	The stoma in a plant is su	rrounded by	···· guard cells.		
	a. one	b. <b>two</b>	c. three		
4.	4. Force arm is sometimes equal to resistance arm in class levers.				
	a. first	b. <b>second</b>	c. third		
5.					
	a. iron.	b. <b>copper</b> .	c. tungste	∍n.	
ha.	ß] What happens in each	case ?			
	The electric lamps countries.      The electric fire is put				
[C	C] Correct the underlined	words:			
	1. Root hair absorbs mo	st water by <b>selecti</b>	ve permeability.	()	
	2. The manual broom is	a <b>second</b> class le	ver.	()	
	3. Stomata are widely sp	oread on the <b>uppe</b> r	r surface of leaf.	()	
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Answ	ver the following question	ns:			
	A] Complete the following	g sentences :			
	1. There are two types of	of electric connection	onand	•••••	
	2. In the first class lever	s the fulcrum is bet	ween and		
	3. The solar eclipse occurstraight line.	urs when	, ·····and the E	arth in one	

	What is meant by?			••••	
		cess:			
[A]	Choose the correct ar	iswer:			
	1. The filament of the e	lectric bulb made from ···			
	a. iron.	b. <b>copper.</b>	c. tungsten.		
	2. The age of root hair i	s			
	a. short.	b. <b>medium.</b>	c. long.		
	3. From the second class	ss levers ······			
	a. scissors.	b. <b>nutcracker.</b>	c. coal holder.		
	4. The lunar eclipse pho	enomena occur at the	**********		
	<ul><li>a. end of lunar montl</li><li>c. beginning of lunar</li></ul>	n. b. middle of lunar r month.	nonth.		
ſΒΊ	What happens when	?			
15 w	1. Put out electric fire w				
				• • • •	
	2. The osmosis process not found in the plant.				
				• • • • •	
[A]	calculate the resistan	affect on resistance ed ce arm.	quals 100 Newton,	anc	
	•••••				
be bank a	1 79 4 4 ( )   40	t of the following state	mante :		
[B]	Put (√) or (≭) in fron		ments :		
[B]	1. Plastic is a good cor	nductor of electricity.		(	
[B]	<ol> <li>Plastic is a good cor</li> <li>The time of solar ecl</li> </ol>			(	
[B]	<ol> <li>Plastic is a good cor</li> <li>The time of solar ecl seconds.</li> </ol>	nductor of electricity. ipse not increase more t	han 7 minutes and few	(	
[B]	<ol> <li>Plastic is a good cor</li> <li>The time of solar ecl seconds.</li> </ol>	nductor of electricity.	han 7 minutes and few	(	
***************************************	<ol> <li>Plastic is a good cor</li> <li>The time of solar ecl seconds.</li> <li>If the force arm is sh</li> </ol>	nductor of electricity. ipse not increase more t norter than resistance arr	han 7 minutes and few	(	
***************************************	<ol> <li>Plastic is a good cor</li> <li>The time of solar ecl seconds.</li> <li>If the force arm is sh</li> </ol> Write the scientific te	nductor of electricity. ipse not increase more to the content of the following states.	han 7 minutes and few n, the lever saves effort. ntements:		
***************************************	<ol> <li>Plastic is a good cor</li> <li>The time of solar ecl seconds.</li> <li>If the force arm is sh</li> <li>Write the scientific te</li> <li>Substances not allow</li> </ol>	iductor of electricity. ipse not increase more to the following state the following state the following state the electric current to present to present the following state the electric current to present the present to present the present to present the present to present the p	han 7 minutes and few  n, the lever saves effort.  atements: bass through. (		
***************************************	<ol> <li>Plastic is a good cor</li> <li>The time of solar ecl seconds.</li> <li>If the force arm is sh</li> <li>Write the scientific te</li> <li>Substances not allow</li> <li>It happens for the Moor</li> </ol>	iductor of electricity. ipse not increase more to the following state the following state the electric current to provide the it enters completely in	han 7 minutes and few  n, the lever saves effort.  atements: bass through. (		
***************************************	<ol> <li>Plastic is a good cor</li> <li>The time of solar ecl seconds.</li> <li>If the force arm is sh</li> <li>Write the scientific te</li> <li>Substances not allow</li> <li>It happens for the Moor</li> <li>Two cells surround th</li> </ol>	iductor of electricity. ipse not increase more to the following state the following state the following state the electric current to present to present the following state the electric current to present the present to present the present to present the present to present the p	han 7 minutes and few  n, the lever saves effort.  atements:  pass through. (		

	2. vve use inert gas ins	tead of air in the electric	с ıamp. 
25	Matrouh Governo	rate The Ede	ucational Directorate
swer	the following questic	ons:	
[A]	Complete the followin	g sentences :	
			between and
	2. Root hair wall is ······		
	3. There are two types	of injuries resulting fron	n the improper use of electric
	which area	nd ·····	
•	4. In the lunar eclipse,	····· comes betwee	n the Sun and ·····
[A]	Choose the correct ar	iswer:	The second secon
	1. From the examples o	of third class levers	
	a. sweet holder.	b. scissors.	c. nutcracker.
	2. ·····is a good co	onductor of electricity.	
	a. Plastic	b. Iron	c. Wood
,	3. ·····absorb wate	er and mineral salts from	n the soil.
	a. Leaves	b. Root hairs	c. Stems
•		np connected in paralle tht intensity of this bulbs	el with several lamps in the
	a. decreases.	b. increases.	c. remains as it.
[B] \	What is meant by?		
	1. Selective permeabilit	y.	
	2. lever.		
	Z. IEVEI.		

	3. Type of levers that always does not save effort.	()
	4. A structure in the plant, where water passes through it from then to leaves.	root to stem,
[B	A force of 500 Newton affects a first class lever and its arm 10 cm., the resistance equals 200 Newton and its arm of res 20 cm., in this example is the lever in state of balance or no	istance equals
[C	] What happens when ?	
	The whole Moon enters the shadow area of the Earth.	
	2. The electric lamps in the house are connected in series.	
4 [A	Correct the underlined words :	444-44
	1. Stomata are widely spread on the <u>upper</u> surface of the plan	it leaves.
		()
	2. Looking to the <b>lunar</b> eclipse causes several harms to eye.	
	<ol> <li>Electric fire occurs as a result of passing an electric curren human body.</li> </ol>	t through the
[B	] The opposite figure represents an astronomical phenomer	non :
	1. Mention the name of it.	3 4
	2. Write the labels :	
		2
	③	
	<ul><li>4</li></ul>	